

TO CORRESPONDENTS.

J. K., of Ohio.—We cannot advise you about the prospects of a market here for bed pins; we do not know of any one here engaged in the sale of this article.

W. H. G., of Vt.—The stitch made by Howe's patent sewing machine is not patented. He has a patent for the mechanical contrivance for forming the stitch.

S. H. Wilder, South Carver, Mass., wishes to obtain the address of Joshua R. Gatchell, formerly a manufacturer of hydraulic rams at Chester, Pa.

W. W. G., of Mo.—Such a husk splitter as you describe could not fail to pay well in many localities.

W. R., of Ky.—We are not acquainted with what you call "Carpenter's plan of boiler setting." You should have sent more definite information respecting it.

H. N. B., of —Experiments have been made with a telegraph cable, such as you suggest, and those experiments excite the fears of Mr. Barnes, for the success of the Atlantic Ocean cable.

J. B., of Ala.—The most expeditious method of heating water for baths is by steam, but this requires a steam boiler. The next best plan is to heat the water in a large cildron by a furnace under it, and draw off the hot water as required, to the baths. The caldron must be kept on a floor above the baths to allow the hot water to flow to them by gravity. We like the steam heating method best, but it is the most expensive to get up.

I. H. S., of Ga.—The plan of boring with a wooden rod attached to the shaft auger was used in mining, in England, before iron rods, and they are so used in some situations yet.

W. D. McC., of N. Y.—Add from ten to fifteen parts of tannin to the sugar of milk for the tooth powder; and use the lake to give it a color suited to your taste.

G. B. O., of —Stimulants are those drugs or substances which produce a quickly diffused energy in the heart and arterial system. You discuss the question in reference to their action on the stomach, respecting which you are too general in your remarks.

E. P. T., of Va.—You can easily try the experiment with the piston in the keel of a vessel. The piston will not be operated so as to be of any benefit in propelling a vessel by the action of the waves. The safety valves placed in the cylinder are new to us and appear to be good.

L. P. C., of Pa.—There is no patent, so far as we are aware, for placing the buckets of the pumps in the manner described by you, but it will be very difficult to point out the patentable feature.

E. C., of Mass.—Woody fiber must first be converted into sugar before alcohol can be made from it. This can be done, but not to make a profitable business of it.

J. B., of Wis.—The silicate of potash is made by boiling pure white sand, or flints, in a strong lye of caustic potash, it is cheap where potash is plenty; it is transparent. Dissolve as much sand as the potash will take up. It soon hardens, but it must be put on in thin coats, on successive days, or it will crack off. The best covering for your gravel walls would be two coats of boiled linseed oil mixed with litharge.

A. A. S., of Ind.—Your samples of black, dyed on cotton, are very good, and your plan of dyeing is new; but it is very difficult to obtain a patent for any such chemical discovery. But is your plan not more expensive than the common method of dyeing black on cotton? Do you not use more than the usual quantities of dyestuffs? Make an experiment with some new coarse factory cloth.

A. O. M.—All invention must be patented in the name of the inventor, or, if he is a foreigner, the fee is, accordingly, \$500 for a British subject, and \$300 for all other aliens. In case the patent is refused two-thirds of the fee is returned.

P. J. H., of Ind.—Get Morritt's Applied Chemistry to Soap and Candle Making, it is the very book you want. Published by Parry & McMillan, Philadelphia.

M. B., of C. W.—A good Jonvall Turbine will give you as much power under a twelve foot head as an overshot wheel. The makers of such wheels assert this to be so, and are willing to guarantee 75 per cent. of the water power.

M. J. H., of N. Y.—We cannot answer your first question; the velocity of the plungers as well as the pressure must be known, to form an opinion of the distance to which water can be thrown by a force pump. The furthest horizontal distance a stream of water has been thrown by a fire engine you will find it related in No. 48, Sci. Am. Six inches thick of boiler plate will resist the largest naval artillery afloat—less, we believe, will not. A conical bullet is the best form for rifles. A rifle of 25 lbs. weight, we believe, may be constructed to carry a two ounce bullet 4,000 yards.

W. H. B., of N. Y.—Some of the metal always passes over in the scum. Put a little salt into your solder and it will carry over the scoria.

S. L., of Ill.—The sulphur in coal causes spontaneous combustion when it is moistened with water. As the coal in your bin contained sulphur, and as it was partially exposed to the weather, it no doubt imbibed sufficient moisture to cause the evolution of sufficient heat to set it on fire. You may depend upon it, lightning was not the cause.

Money received at the SCIENTIFIC AMERICAN Office on account of Patent Office business for the week ending Saturday, Aug. 16, 1856:—

J. P. T. of Ill, \$30; J. W. of Ind., \$25; C. B. B., of Ct., \$45; R. D. A. of Miss., \$25; E. E. of Ill., \$25; A. G. of Ill., \$25; M. & C. P., of Md., \$55; J. C., of Ind., \$5; J. F. S., of N. Y., \$30; T. J. C., of N. Y., \$115; S. Y. of N. Y., \$30; J. A. R., of Mass., \$30; T. S. of N. J., \$30; H. L. of N. C., \$250; C. T. S., of Mass., \$20; B. & T. of Geo., \$30; C. H. R. of Me., \$30; D. N. of N. Y., \$25; J. R., of Pa., \$30; J. B. of Ill., \$30; W. G. R. of Mass., \$20; M. & J. B. of N. H., \$30; A. M. J. of Va., \$30; E. A. D., of Ind., \$56; S. G., of O., \$25; T. H., of N. Y., \$15; H. C. of Mass., \$30; T. V., of Cal., \$15; T. B. of N. Y., \$55; G. H. T. of Mats., \$150; A. O. N. & Co., \$30; F. F. of N. Y., \$30; N. Y. & B. B. Co., \$82; E. T. of N. J., \$37; J. G., of N. Y., \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, August 16:—

R. D. A., of Miss.; E. E., of Ill.; J. W., of Ind.; A. G. of Ill.; C. B. B., of Conn.; W. M., of Ky.; E. T., of N. J.; D. N., of N. Y.; S. A., of Tenn.; P. C., of N. Y.; C. H. R., of Me.; L. B. F., of N. Y.; S. G., of O.; D. N. D., of Mass.; J. C. P., of N. Y.; H. B. H., of O.; T. M., of N. Y.; M. & C. P., of Md.; T. S., of N. J.; T. V., of Cal.

Important Items.

NEW EDITION OF THE PATENT LAWS.—We have delayed for some months the issue of another edition of the present Patent Laws in the expectation that Congress would most certainly at this Session, make some simple amendments to them—such as are earnestly sought for by inventors and patentees. As there is now little hope that any such changes will be made during the session, we have issued a complete edition of the laws, including the regulations of the Patent Office—copies of which can be had for 12 1/2 cents each. If any of our readers, who have ordered the laws and regulations, and have not received them, they will be promptly supplied upon renewing their requests by letter.

MODELS.—We shall esteem it a great favor if inventors will always attach their names to such models as they send us. It will save us much trouble, and prevent the liability of their being mislaid.

To THE UNFORTUNATE.—We are no longer able to supply the following back numbers of the present volume: Nos. 6, 12, 14, 15, 17, 18, 19, 21, 22, 23, 24, 25, 27, 28, 29, 30, 34, 35, and 37. Such numbers as we have to furnish, are gratuitously supplied to such subscribers as failed to receive them; and we would take occasion to state, that any person failing to receive their paper regularly, will confer a favor by notifying us of the fact. Missing numbers should be ordered early, to insure their receipt, as an entire edition is often exhausted within ten days after the date of publication.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within fourteen 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 fees for copying.

RECEIPTS.—When money is paid at the office for subscription, 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 acknowledgment of the receipt of their funds.

Terms of Advertising.

Table with 2 columns: Number of lines, Price per insertion. 4 lines, for each insertion, \$1; 8 lines, \$2; 12 lines, \$3; 6 lines, \$4.

Advertisements exceeding 16 lines cannot be admitted either on engravings being inserted in the advertising columns at any price.

All advertisements must be paid for before insertion.

IMPORTANT TO INVENTORS.

THE UNDERSIGNED having had Ten years' practical experience in soliciting PATENTS in this and foreign countries, beg to give notice that they continue to offer their services to all who may desire to secure Patents at home or abroad.

Over three thousand Letters Patent have been issued, whose papers were prepared at this Office, and on an average fifteen, or one-third of all the Patents issued each week, are on cases which are prepared at our Agency.

An able corps of Engineers, Examiners, Draughtsmen, and Specification writers are in constant employment, which renders us able to prepare applications on the shortest notice, while the experience of a long practice, and facilities which few others possess, we are able to give the most correct counsels to inventors in regard to the patentability of inventions placed before us for examination.

Private consultations respecting the patentability of inventions are held free of charge, with inventors, at our office, from 9 A. M., until 4 P. M. Parties residing at a distance are informed that it is generally unnecessary for them to incur the expense of attending in person, as all the steps necessary to secure a patent can be arranged by letter. A rough sketch and description of the improvement should be first forwarded, which we will examine and give an opinion as to patentability, without charge. Models and fees can be sent with safety from any part of the country by express. In this respect New York is more accessible than any other city in our country.

Circulars of information will be sent free of postage to any one wishing to learn the preliminary steps towards making an application.

In addition to the advantages which the long experience and great success of our firm in obtaining patents present to inventors, they are informed that all inventions patented through our establishment, are noticed, at the proper time, in the SCIENTIFIC AMERICAN. This paper is read by less than 100,000 persons every week, and enjoys a very wide spread and substantial influence.

Most of the patents obtained by Americans in foreign countries are secured through us; while it is well known that a very large proportion of all the patents applied for in the U. S., go through our agency.

M. N. N. & CO., American and Foreign Patent Attorneys, Principal Office 128 Fulton street, New York.

FETTER'S PATENT BOOT CRIMPING Machine is in successful operation in many places, and can be obtained by addressing FETTER & CO., No. 5 Hart's Buildings, Sixth st. above Chestnut, Philadelphia, Pa. Agents wanted. 1\*

THE PATENT DECISION.—To the Editors of the SCIENTIFIC AMERICAN.—The statement in your paper of this morning in regard to the verdict of the jury in the case of George Page vs. Georgia, is a perversion of one. It is true that the verdict was in favor of the defendant, but not upon the ground stated in the Elmira Advertiser, which you copied. On the first ballot of the jury there were 7 for the plaintiff and 5 for the defendant.—The jury then proceeded to take up each question separately: First, they passed upon the question of priority of invention, and decided in favor of plaintiff, George Page. The next question was, Did the defendant infringe the patent? Upon this question the jury stood 8 for plaintiff and 4 for defendant, and so stood until 6 o'clock in the morning, and ultimately brought in a verdict for defendant, upon the testimony of one of the witnesses for defendant, who swore that he had tended the mill from the time it started, and that it never had end-play. And as this formed the essence of the infringement, and it was not proven by the witnesses of complainant that the mill had been worked with end-play, though the fact is notorious that it had been so worked, the jury found for the defendant, though they unanimously decided that the priority of invention belonged to George Page, thereby sustaining the validity of his patent.

GEORGE PAGE & CO., Baltimore, August 2d. 50 4

MECHANIC'S GUIDE (Useful Tables and Recipes) Ten cents. History of Steam Plowing, Fifty cents. Wilson on the Horse, 12 1/2 cents. Sent by mail on receipt of price. JOHN PHIN, Rochester, N. Y. 1\*

WOOD BENDING APPARATUS.—Patented March 11th, 1856, for bending plow handles, carriage, chair, boat, ship timbers, &c. This apparatus is simple and inexpensive, and can be constructed by the most ordinary mechanic, and operated by hand or power equally well. Apparatus constructed and order and rights to use the same, apply to JOHN MORRIS, No. 113 Mill st., Cincinnati, O., or E. GRIFFITH, Troy, N. Y. 50 2\*

BALLOON—I will sell the Balloon "Young America," used at Boston 4th of July last, all in complete order, desirably painted on, &c. Holds 10,000 cubic feet. Terms low. JOHN WISE, Lancaster, Pa. 50 1\*

ALEXANDER'S COMPOUND Parallel Sawing Machine, for making lath from the slab or board cross-cutting, ripping, and sawing miter, all combined in a cheap, simple and compact manner, is illustrated in No. 50, Scientific American. Sash factories, cabinet shops, carpenter shops, etc., should have these machines. Price \$60. Country and State rights for sale. Address: THOS. J. ALEXANDER, Westerville, Franklin Co., Ohio. 50 5\*

TWENTY-EIGHTH ANNUAL FAIR OF THE American Institute of the City of New York at the Crystal Palace.—This magnificent and spacious building will be opened for the reception of Goods from Monday the 15th, until Saturday the 20th of September. Heavy goods and articles from a distance will be received and stored in the Palace on and after the 1st of September.—Premiums—consisting of Gold, Silver, and Bronze Medals, Diplomas, &c.—will be awarded on the recommendation of competent and impartial judges. The Cattle Show will be held on Hamilton Square, a beautiful plot of ground of ten acres, granted by the Corporation of the City of New York for that purpose, on Tuesday, Wednesday and Thursday, the 14th, 15th, and 16th days of October. The Managers would impress upon exhibitors the necessity of giving immediate notice of the space they wish to occupy, and those exhibiting machinery require already made, the Managers find it necessary to make further provision for steam power. Communications addressed to Wm. B. Leonard, Corresponding Secretary, will meet with particular attention. Circulars containing full particulars can be had on application at the office of the American Institute, 351 Broadway, New York. GEO. F. NESBITT, Chairman. 49 3

JOHN W. CHAMBERS, Secretary. 49 3

CIRCULAR SAW MILLS.—The subscriber has on hand, and is constantly manufacturing those celebrated mills, with saws from 30 to 80 inches diameter, adapted to manufacturing most kinds of lumber, and warranted to give satisfaction. For prices, &c., address W. HERRICK, Northampton, Mass. 49 8\*

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 degrees 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 Co., JOHN H. CHEEVER, Treasurer, No. 6 Deystreet, N. Y. 48 10\*

PAGE'S PATENT CIRCULAR SAW MILLS with Steam Engines and Boilers on hand, and for sale for \$1500, at Schenck Machine Depot, 163 Greenwich st., New York. A. L. ACKERMAN. 49 10

PREMIUMS FOR FIRE ENGINES.—The large Gold Medal will be awarded for the best Steam Fire Engine, and for the best Fire Engine, to be operated by hand power, to be exhibited at the Fair of the American Institute this Fall. By order of the Managers. 49 2

SECOND HAND STEAM ENGINES FOR sale. One of six and one of eight-horse power. In good order, and will be sold low. W. H. ADAMS, 48 2\*

NOTICE.—To Agricultural Societies and Manufacturers.—G. & J. W. Gibbs, of Canton, Ohio, have invented a Dynamometer, the best yet brought before the American people for testing the draft of plows, mowers and reapers, &c. Those wishing to secure one of these valuable instruments for the coming trial this fall, should order early. Instruments warranted. Patent applied for. 48 3\*

INGERSOLL'S IMPROVED PORTABLE Press for Hay, Cotton, Tobacco, &c.—A silver medal for which was awarded last fall at the Fair of the American Institute, and also at the Fairfield County Fair in Conn. On account of its cheapness, compactness, portability and great power it is especially adapted to the wants and means of every farmer and planter, and is believed to be far superior in every respect to any other machines of the kind now manufactured. See Sci. Am. Vol. XI, No. 30. Circulars, cuts, &c., descriptive of the machine can be had on application to the Farmers and Mechanics Manufacturing Co., Green Point, (Brooklyn) L. I. 48 4\*

WELTON, STEARNS & HOLMES.—Artesian Engineers, Charleston, S. C., and Augusta, Ga. A. C. WELTON, I. H. STEARNS, C. B. HOLMES. 48 3\*

FOR SALE.—9 Volumes of the Scientific American, 2 to 10 inclusive, complete and well bound. Address J. V. HAYNES, West Meriden, Conn. 48 2\*

VANFLEET'S PLANING MACHINE.—Important to Builders, Dealers in Lumber, Car Manufacturers, &c.—This machine does not take half the power that the Woodworth Planer does, and is applicable and practicable for horse power. For rights and machines address D. C. HENDERSON, Sandusky, O. 48 4\*

50 STEAM ENGINES.—From 3 to 40-horse power also portable engines and boilers; they are first class engines, and will be sold cheap for cash. WM BURDON, 102 Front st., Brooklyn. 41 tf

GOLD QUARTZ MILLS of the most improved construction; will crush more quartz and do it finer than any machine now in use, and costs much less. WM BURDON, 102 Front st., Brooklyn. 41 tf

HARRISON'S GRIST MILLS.—20, 30, 36 and 48 inches diameter, at \$100, \$200, \$300, and \$400, with all the modern improvements; Bolters, Elevators, Belting, &c. &c. Also, Portable and Stationary Steam Engines of all sizes, suitable for Sails Mills. Apply to S. C. HILLS, 12 Platt st., N. Y. 32 63wtf

MACHINERY.—S. C. HILLS, No. 12 Platt street, N. Y., dealer in Steam Engines, Boilers, Planers, Lathes, Chucks, Drills, Pumps, Mortising, Tenoning, and Sash Machines, Woodworth's and Daniel's Planers; Dick's Pumps, Presses, and Shears; Clog and Corn Mills; Harrison's Grist Mills; Johnson's Shingle Mills; Belting, Oil, &c. 26 63w

ENGINEERING.—The undersigned is prepared to furnish specifications, estimates, plans in general or detail of steamships, steamboats, propellers, high and low pressure engines, boilers and machinery of every description, Broker in steam vessel, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic Self-adjusting Conical Packing, Galloway's Water Gauge, Sewell's Sainometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, Machinery Oil of the most approved kind, etc. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway. 27 60wtf

IRON FOUNDER'S FACING MATERIALS.—Viz. Sea Coal, Hardwood Charcoal, Lehigh Coal, Soapstone, and German Black Lead finely pulverized; also Core Flour, Fire Clay, Fire Sand, and Fire Bricks, for sale by G. O. ROBERTSON, 135 Water st., New York. 44 46ow\*

CLOCKS for Churches, Court Houses, &c. Regulators and time pieces for jewelers, railroads, offices, &c. Also glass dials of any size for illuminating, and other kinds manufactured and warranted by the subscriber.—JOHN SHERRY, Oakland Works, Sag Harbor, N. Y. 37 12 60w

CLARK'S PATENT WATER REGULATOR.—The only perfect security against steam boiler explosions, caused by want of water. Every steam boiler should have one. Regulators sold and applied and rights for most of the States and Territories, for sale by S. C. HILLS, 12 Platt st., N. Y. 48 60w

CIRCULAR SAWS.—We respectfully call the attention of manufacturers of lumber to the great improvements recently introduced in the manufacture of our Circular Saws. Being sole proprietors of Southwell's patent for grinding saws, we are enabled to grind circular saws from six inches to six feet with the greatest accuracy and precision. The impossibility of grinding a saw without leaving it uneven in thickness has always been acknowledged by practical saw makers. This causes the saw to expand as soon as it becomes slightly heated in working. When this takes place the saw loses its stiffness, and will not cut in a direct line. We will warrant our saws to be free from these defects; they are made perfectly even in thickness, or gradually increase in thickness from the edge to the center, as may be desired. As there are no thick or thin places, the friction on the surface of the saw is uniform, consequently it will remain stiff and true, and will require less set and less power, will cut smooth, save lumber, and will not be liable to become untrue. This is the oldest establishment now in existence for the manufacture of circular saws in the United States, having been established in the year 1830. Orders received at our Warehouse, No. 48 Congress st., Boston. 44 13\*

KNITTING MACHINES.—Circular and straight knitting machines of all sizes and gauges on hand and made to order. WALTER AIKEN, Franklin, N.H. 46 8\*

PAGE'S PATENT PERPETUAL LIME KILN, will burn 100 barrels of lime in three days, and wood every 24 hours; likewise my coal kiln will burn 150 bushel with 1 tub bituminous coal in the same time; coal is not mixed with limestone. Rights for sale. 45 26

NORRIS WORKS, Norristown, Pa.—Ingils, Carson & West, Iron and Brass Founders, Machinists, Boiler Makers and Steam Engine Builders—Manufacture Cornish Pumping Engines of an improved construction for mines and water works, of any capacity. All kinds of Mining Machinery, Sugar Mills, Propeller Engines for Canal Boats, Blowing Cylinders, and all heavy machinery required in the Engineering business generally. ANDREW INGILS, RICHARD R. CARSON, JOHN WEST. 43tf

LAWRENCE SCIENTIFIC SCHOOL.—Harvard University, Cambridge, Mass. The next term will open on Thursday, Aug. 25th. For catalogue containing full particulars address E. W. HORSFORD, Dean of the Faculty. 42 8

BARREL MACHINERY.—CROZIER'S PATENT is unrivaled in point of quality and quantity of work performed, and may be seen in constant operation at the Barrel Manufactory of the undersigned. For rights and machines address WELCH & CROZIER, 43 18\*

TO CAR BUILDERS.—For Sale, one new Upright Boring Mill for boring car wheels. Maker's price \$600, will be sold for \$300 cash. Address GEO. S. LINCOLN & CO., Hartford, Ct. 43tf

FOR SALE.—One second-hand 7 ft. power Planing Machine, made by the New Haven Manufacturing Co. Cost \$500, will be sold for \$300 cash. Has been used only about four months. Also an upright lathe by the same makers. Cost \$30, will be sold for \$20 cash. Address GEORGE S. LINCOLN & CO., Hartford, Conn. 47 tf

BOILER FLUES.—All sizes and any length promptly furnished by JAMES O. MORSE & CO., No. 79 John st., N. Y. 37 3mos

WROUGHT-IRON PIPE.—Plain, also galvanized inside and outside, sold at wholesale by JAMES O. MORSE & CO., No. 79 John st., N. Y. 37 3mos

FORBES & BOND, Artists, 89 Nassau st., N. Y., Mechanical and general Draughtsmen on wood, stone, &c.

THE NEW YORK DAILY SUN for \$2 a year. The miracle of the present age is accomplished by the Publisher of the New York Sun, in furnishing subscribers in clubs of thirty or more with the daily paper by mail for \$2 a year. The Sun commenced in 1853; is the oldest, as well as the cheapest of all the cheap daily newspapers. It contains the latest news to be had by telegraph, mail, or express—is independent on all subjects, and has for its platform "Common Sense." Club rates—payable in advance, 5 copies one year \$16-50; 10 copies \$30; 15 copies \$41-25; 20 copies \$50; 25 copies \$56-25; 30 copies \$62 a year. Single copies 4¢ a year. Papers to be sent in one wrapper, and only by mail, and to be directed to one person only. The postage on the Daily Sun within the State of New York is only 78 cents per year, and only \$1-56 to any other part of the United States. Specimen copies sent gratis on application. Letters (always post paid) to be directed to MOSES S. BEACH, Sun Office, New York City. 37 tf

VAIL'S CELEBRATED PORTABLE STEAM Engines and Saw Mills, Bogardus' Horsepowers, Smut Machines, Saw and Grist Mill irons and Gearing, Saw Gummies, Ratchet Drills, &c. Orders for light and heavy forging and castings executed with dispatch. LOGAN & LINDGREN, 9 Gold st., N. Y. 13 1y\*

FULMER & CO., Electrotype engravers and Manufacturers of Electrotype Materials, 125 Fulton st., N. Y. Moulding Presses, Batteries, Cases, Backing Pans, Shaving Machines, Metal Kettles, Planes, Blocks, Building Irons, etc., etc., on hand, or furnished at short notice, and at moderate charges. Adams' Improved batteries and black-lead machines also for sale. 23 tf

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 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, pronounced it "superior to any other they have ever used for machinery." For sale only by the inventor and manufacturer, F. S. PEASE, 61 Main st., Buffalo, N. Y. N. B.—Reliable orders filled for any part of the United States and Europe. 33 tf

NORCROSS ROTARY PLANING MACHINE.—The Supreme Court of the U. S., at the Term of 1853 and 1854, having decided that the patent granted to Nicholas G. Norcross, of date Feb. 12, 1850, for a Rotary Planing Machine for Planing Boards and Planks is not an infringement of the Woodworth Patent. Rights to use the N. G. Norcross's patented machine can be purchased on application to N. G. NORCROSS, Office for sale of rights at 27 State street, Boston, and Lowell, Mass. 45tf

NEW HAVEN MFG. CO.—Machinists' Tools, Iron Planers, Engine and Hand Lathes, Drills, Bolt Cutters, Gear Cutters, Chucks, &c., on hand and finishing. These Tools are of superior quality, and are for sale low for cash or approved paper. For cuts giving full description and prices, address, "New Haven Manufacturing Co." New Haven, Conn. 19 tf

HARRISON'S 30 INCH GRAIN MILLS.—Latest Patent.—A supply constantly on hand. Price \$200. Address New Haven Manufacturing Co., New Haven, Conn. 31tf

BOILER INCURSTATIONS PREVENTED.—A simple and cheap condenser manufactured by Wm. Burdon, 102 Front st., Brooklyn, will take every particle of lime or salt out of the water, rendering it as pure as Croton, before entering the boiler. Persons in want of such machines will please state what the bore and stroke of the engines are, and what kind of water is to be used. 41 tf