

TO CORRESPONDENTS.

C. B., of Pa.—Your plan, in some of its parts, is patentable, and the patent would have to be on the peculiarly constructed truck for the object specified. The evil to be remedied is one we have oftenspoken of; but other plans than the one you have proposed, may also be substituted.
H. M. P., of Mass.—Your idea is that a certain amount of heat will increase the pressure of a certain amount of air in a cylinder, and that if three times the quantity of air is packed in the vessel, the same amount of heat will increase its pressure three-fold—that is, perpetual motion. We have no wish to examine this at any great length.
S. G. W., of Mich.—The best advice we can give you with respect to your spiles, is to dry them by steam, high pressure, and then burn them outside, so as to char them one-eighth of an inch deep, then drive them in; if you had apparatus to impregnate them with a solution of the sulphate of copper and alum, we would recommend you to do so.
J. E. B., of Conn.—In your letter on governors, the part of it which says that centrifugal force and gravity have nothing to do with the question, is liable to be mistaken, for although the action is dependent on increments of speed, the governor is employed for the very purpose of regulating the speed. The rest of your letter is very good except that which relates to T., he is a sincere honest man.
A. B. B., of N. Y.—You have not told us the depth of your wheel buckets. But your wheel of 40 feet diameter, by using 13 feet of water per second, will exert nearly 40 horse power, and as your pond contains 20,000,000 cubic feet of water, it will run the wheel nearly 406 hours; the power of the water is as the height of the fall and the quantity that falls in a given time.
S. M. E., of Ohio—We cannot furnish you with the back numbers. Write to Stillman, Allen & Co., of the Novelty Works, this city, and give a full description of what you want; those engaged in the manufacture of the apparatus can give you the most minute information on the subject.
G. A. R. & Co., of N. H.—Have you any fire bridges under your boiler, or do you simply use straight flues? It is no easy matter to get rid of sparks or smokes; if you get rid of the former you are sure to get rid of the latter. You should at least have a very long furnace, and feed close to the door, then push back the red embers, as you feed in, by this plan the smoke and sparks would pass over the face of a red fire and be consumed. Make the flue to dip down at the back of the fire, if possible, so as to bring the sparks down on the red embers. You might use a copper gauze screen at the neck of your chimney, to catch the sparks.
E. W., of N. Y.—We have never known spiral springs used to strain mulesaws, we cannot recommend you to try them; the speed of the saw usually varies from 300 to 300; 90 to 100 does very well for your engine; use a belt; a 20 feet flue boiler should be sufficient, with a cylinder 10 inch bore and 2 feet stroke; the proportions of cylinder may vary according to the fancy of the engineer. Old boilers, if clean and tight, will generate steam as rapidly as new, the varieties of iron affect the strength of the boiler only.
J. B. R., of N. Y.—The using heat over again is as great an absurdity as the attempt to create a perpetual motion; Ericsson himself has abandoned it,—your ideas are impracticable.
F. B., of N. Y.—Your plans for the propulsion of vessels have both been tried long ago and abandoned.
N. Y., of Ohio.—Your plan, although a good one, perhaps does not fulfill the requirements of the committee as they call for an invention to prevent the changing of the name of the bank as well as the denomination of the bill.
H. H., of Mass.—We are aware that gate saws have been run with a belt, but we are still inclined to prefer the crank; a balance crank should of course be used in all cases.
A. P. C., of N. Y.—We have recently taken a patent in England for a propeller wheel, which embraces your idea identically.
H. S. W., of Ohio.—Your Letters Patent have been received.
W. J. F. L., of Pa.—We think your plan for a Ture Iron is new and patentable. A circular, giving information as to the size of models required by the Patent Office, and other hints concerning applications, has been sent you. The engravings of your Iron Punch are nearly ready for publication.
J. L., of N. C.—For details of such machinery as you may wish to purchase, we would refer you to Joseph E. Holmes, at the Crystal Palace. For a consideration he will attend to your enquiries, and we can recommend him as a very reliable man and a good mechanic.
G. T. P., of N. Y.—The manner you describe for ringing a bell at railroad crossings, is different from anything we have before seen, but we do not think that railroad companies would adopt it at their own expense.
R. S. Blount, of Galveston, Texas, wishes to procure a corn dryer capable of drying 100 bushels per day. We presume some of our readers can furnish him with an apparatus of this kind.
O. S., of Pa.—Considerable call is made on us for sash door and blind machinery, but we are not acquainted with a single maker in the business,—can't give any information.
A. S. L., of Pa.—We do not know the name of the inventor of the ear instrument published in our paper of the 25th inst. We have furnished all the information we possess upon the subject.
B. N. C., of N. Y.—A caveat does not secure an invention from infringement; it affords the caveat a right to receive a notice of any interfering application for a patent made within one year after the caveat filed.
H. B., of Ind.—We do not discover any patentable feature in your pump; neither can we discover that it contains any advantage not already possessed by the ordinary double-action pumps.
E. J. L., of Va.—There is not, in our opinion, any patentable novelty in your described improvement in Corn Shellers; it does not, in our judgment, involve an invention in the sense in which it is understood.
J. M. R., of Mass.—No letter sent to this office will receive attention unless the writer's name is furnished.—Your letter we have not preserved.
F. B. A., of Ill.—Your bullet machine appears to be quite new, and we advise you to send us a model. The size must not exceed a cubic foot.
J. H. G., of Ct.—There is no good work that we can recommend devoted to the jewelry trade.

A. H., of N. Y.—We are gratified with the very high opinion you have expressed in regard to the Scientific American, and also of our Patent Agency. It has been our endeavor at all times to publish a reliable journal in every respect, and also to conduct an agency for securing patents governed by the strictest sense of honor.
J. H. H., of —You can purchase a hand printing press of Messrs. Hoe & Co. of this city; we don't know the price.
R. F., of Tenn.—We published an engraving and description of Barker's Pump in Vol. 7; by referring to it you will find our remarks accompanying the engraving.
J. M. K., of Mass.—The "Cloud Engine" is operated by a mixture of steam and hot air or carbonic acid gas. We cannot describe its construction as it is very complicated.
Money received on account of Patent Office business for the week ending Saturday, March 11:—
A. J., of Ind., \$25; J. S. S., of Md., \$25; O. B., of Ind., \$13; U. B. V., of Pa., \$30; K. & B., of N. Y., \$30; J. G., Senr., of Ind., \$30; C. H. P., of N. Y., \$275; A. A. S., of N. Y., \$25; T. F. C., of Va., \$30; J. W., of Mass., \$25; J. C., of N. Y., \$300; T. H. P., of Me., \$50.
Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 11:—
A. J., of Ind.; A. H., of O.; O. B., of Ind.; J. S. S., of Md.; J. C., of N. Y.; D. D., of Pa.; A. A. S., of N. Y.; J. W., of Mass.; B. S. W., of R. I.

ADVERTISEMENTS.

Table with 2 columns: Description of advertising rates and prices. Includes 'Terms of Advertising' and 'Advertisements exceeding 16 lines cannot be admitted'.

Advertisements exceeding 16 lines cannot be admitted; neither can engravings be inserted in the advertising columns at any price.

All advertisements must be paid for before inserting.

American and Foreign Patent Agency.

IMPORTANT TO INVENTORS.—The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offer their services to inventors upon the most reasonable terms. All business entrusted to their charge is strictly confidential. Private consultations are held with inventors at their office from 9 A. M. until 4 P. M. Inventors, however, need not incur the expense of attending in person, as the preliminaries can all be arranged by letter. Models can be sent with safety by express, or any other convenient medium. They should not be over 1 foot square in size, if possible.
Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the special attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Patents.
MUNN & CO., Scientific American Office, 125 Fulton Street, New York.

EUROPEAN PATENTS.—MESSRS. MUNN & CO. pay special attention to the procuring of Patents in foreign countries, and are prepared to secure patents in all nations where Patent Laws exist. We have our own special agents in the chief European cities; this enables us to communicate directly with Patent Departments, and to save much time and expense to applicants.

FOR SALE.—649 acres Heavy Timbered Land, situated one mile from Spruce Grove, Pa., and two miles from the Lackawanna and Western R.R., now being built; there is on the premises two windmills, a good factory, and machinery for manufacturing bedsteads; also a veneer saw, saw mill, with a 20 feet overhead wheel; also four other water powers on the property. Must be sold by the first of April to close a partnership concern. For particulars address YOTHERS & HODGK, Spruce Grove, Monroe Co., Pa.

BROUGHT IRON DIRECT FROM THE ORE.—The owners of James Renton's Patent are now prepared to sell rights for this most valuable invention. Apply to JAMES RENTON, Cleveland, Ohio, or to A. H. BROWN, 107 Market st., Newark, N. J. 27 10*

SCREW CUTTING MACHINES, with P. W. Gates' Patent Dies.—The subscribers keep constantly on hand three sizes of the above-named machines, to wit—No. 1 machine, 10 sets dies and taps from one-half to two inches \$350; No. 2 sets dies and taps, one-half to one and a half inches \$250; No. 3, 6 sets dies and taps three-eighths to one inch, \$150. Cash on delivery at shop. P. W. GATES & CO., Chicago, Ill. 27 13

HUDSON MACHINE WORKS and Iron Foundry at Hudson City, N. Y., are prepared to contract for castings for railroads, bridges, buildings, gas pipes and posts, water pipe, cast-iron ornaments, floors, cannon, &c. Steam engines and boilers, high and low pressure, sugar mills, Cornish lifting and forcing pumps for mines; stamps, mortars, and mining machinery; also superior hydraulic pumps and presses, and superior machinists' tools made to order. Special attention given to the repair of patent machines. Orders by mail will receive prompt attention. New York Office No. 18 Exchange Place. FREDERIC COOK & CO. 27 17

PIANOFORTE MANUFACTURERS.—Are invited to examine the new and various patterns of carved legs now in store, also givn warranted to stand in all climates, and therefore particularly adapted to pianoforte work; "Excelsior" Sand Paper, Pumice Stone, ground and in lump, Rotton Stone, &c. WM. B. PARSONS & CO., 290 Pearl street, (near Beekman) New York. 26 3*

CLINTON FOUNDRY.—502 and 504 Water street, N. Y. A large and valuable collection of pulley and machinery Patterns; also loam and dry sand Castings, such as Printing and Steam Cylinders, Sugar Pans, Kettles, Vats, Curbs, Rollers, Pipes, &c. A general assortment of Pulleys always on hand. REANEY & MCKINLEY, 26 6*

BARSTOW & WOODMAN, Attorneys and Patent Agents, 74 Wall st., are prepared to aid Patentees, in introducing their inventions into use, or in the sale of rights or prosecution of violators. Address as above, post-paid. 26 3*

PORTABLE STEAM ENGINES.—The subscriber is now prepared to supply excellent Portable Engines, with Boilers, Pumps, Heaters, etc., all complete, and very compact, say 1, 2, 3, 4, 6, 8, and 10 horse power, suitable for printers, carpenters, farmers, planters, &c., they can be used with wood, bituminous, or hard coal; a 2 1/2 horse engine can be seen in store, it occupies a space 5 feet by 3 feet, weighs 1500 lbs., price \$240; other sizes in proportion. S. C. HILL, 25 50

PIG IRON.—The subscriber has always on hand a stock of the best brands of American and Scotch Pig Iron for sale at the lowest market price. G. O. ROBERTSON, 155 Water st., cor. Pine, N. Y. 13 14 60

UNITED STATES PATENT OFFICE, Washington, Feb. 16, 1854.

ON THE PETITION of Samuel F. B. Morse, of Poughkeepsie, New York, praying for the extension of a patent granted to him on the 20th of June, 1840, for an improvement in the mode of communicating information by signals, by the application of electro-magnetism, for seven years from the expiration of said patent, which takes place on the 20th day of June, 1854—

It is ordered that the said petition be heard at the Patent Office, on Monday, 22nd day of May next, at 12 o'clock, M.; and all persons are notified to appear and show cause, if any they have, why said petition ought not to be granted.

Persons opposing the extension are required to file in the Patent Office their objections, specially set forth in writing, at least twenty days before the day of hearing. All testimony filed by either party, to be used at the said hearing, must be taken and transmitted in accordance with the rules of the office, which will be furnished on application.

The testimony in the case will be closed on the 12th of May; depositions, and other papers relied upon as testimony must be filed in the Office on or before the morning of the 13th May; the arguments, if any, within ten days thereafter.

Ordered, also, that this notice be published in the Union, Intelligencer and Evening Star, Washington, D. C.; Pennsylvania, Philadelphia, Pa.; Scientific American, New York; and Inquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the 3rd of April next, the day of hearing.

CHARLES MASON, Commissioner of Patents. P. S.—Editors of the above papers will please copy, and send their bills to the Patent Office, with a paper containing this notice. 26 3*

UNITED STATES PATENT OFFICE, Washington, February 13, 1854.

ON THE PETITION of Samuel Blatchford, administrator of Orlando Jones, deceased, of Auburn, N. Y., praying for the extension of a patent granted to the said Orlando Jones, on the 30th day of April, 1840, for an improvement in the manufacture of starch, for seven years from the expiration of said patent, which takes place on the 30th day of April, eighteen hundred and fifty-four.

It is ordered that the said petition be heard at the Patent Office on Monday, the 24th day of April next, at 12 o'clock, M.; and all persons are notified to appear and show cause, if any they have, why said petition ought not to be granted.

Persons opposing the extension are required to file in the Patent Office their objections, specially set forth in writing, at least twenty days before the day of hearing; all testimony filed by either party to be used at the said hearing must be taken and transmitted in accordance with the rules of the office, which will be furnished on application.

Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pennsylvania, Philadelphia, Pa.; Scientific American, New York; Post, Boston, Massachusetts; and Enquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the 24th day of April next, the day of hearing.

CHARLES MASON, Commissioner of Patents. P. S.—Editors of the above papers will please copy and send their bills to the Patent Office, with a paper containing this notice. 26 3*

THE HAND BOOK FOR THE ARTISAN, MECHANIC AND ENGINEER.—By the well-known Mechanical author, OLIVER BYRNE, is this day published by K. Collins, Jr., No. 10 North Sixth street, Philadelphia, Pa. It will maintain its place among the other numerous and highly valued works of this author. The work contains the arts of Polishing, Lacking, Grinding, Japanning, Staining, and Burnishing, as well as the arts of perfecting engine works and mechanical designs; the tanning of wood, stone, marble, glass, diamonds, iron, steel, and works in all sorts of metals and alloys, and the various abrasive processes that effect what cannot be done by cutting tools. To which is added a dictionary of apparatus, material, and processes employed in the mechanical and useful arts, for Grinding, Polishing, and Ornamenting. This work contains 433 pages 8vo., with 100 plates, and 155 wood engravings. Price \$5. It will be sent by mail free of postage on receipt of \$5. 25 5

BAKER'S IMPROVED BOILER FURNACE.—As used at the Crystal Palace; orders received for Stationary, Marine, and Locomotive Furnaces on this plan, and also for the rights for towns, counties, or States; certificates can be shown of furnaces in use for stationary, marine, and locomotive purposes, with saving from 30 to 50 per cent. in fuel. J. AMORY, 25 7

J. A. FAY & CO., Worcester, Mass., Builders of Daniel's Planers, with improvements, and Matching Machines with carriage, to joint and match parallel or taper. 25 4

NORCROSS' ROTARY PLANING MACHINE.—It has been affirmed by a decision of the Supreme Court of the U. S. that the Norcross Patent does not infringe the Woodworth machine. Having obtained the above decision in my favor, I now offer to the public my machines and the right to use them. And I have no hesitation in saying that they are much superior to any other planing machine in use. I obtained medals at the Fair in Boston, and at the American Institute in New York, for the best planing in competition with the best Woodworth machines. And now that the question of infringement is settled by the highest authority, the public can have them at a fair price. They are not only the best machines ever invented, but the safest—the life of the operator is not endangered as with other machines, which consideration alone is worth four-fold what I ask for the right to use them. N. G. NORCROSS, Lowell, Mass., Feb. 11th, 1854. 24 6*

GREAT IMPROVEMENT IN STEAM ENGINES.—Tremper's Patent Spherical Governor & Fuel Economiser. This Regulator and Economiser will do more work with a given amount of steam than other known mode without expensive cut-offs expansion valves or other contrivances, no change of motion to interfere with the most delicate work in any case, and being both a regulator and steam economiser at a nominal expense; warranted to supersede by far all others, or the money returned. JOHN TREMPER, 35 5* Highland Iron Works, Newburgh, N. Y.

ATKINS' SELF-RAKING REAPER.—40 of these machines were used the last harvest in grass or grain or both, with almost uniformly good success, in nine different States and Canada. Twenty-six premiums, including two at the Crystal Palace, (silver and bronze medals) were awarded it at the autumn exhibitions. I am building only 300, which are being rapidly ordered. Mr. Joseph Hall, Rochester, N. Y., will also build a few. Early orders necessary to insure a reaper. Price at Chicago \$175—\$75 Cash with order, note for \$50, payable when reaper works successfully, and another \$50, payable 1st December next with interest. Or \$180 cash in advance. Warranted to be a good Self-Raking Reaper. Agents properly recommended wanted throughout the country. Experienced agents preferred. It is important this year to have the machines widely scattered. Descriptive circulars with cuts, and giving impartially the difficulties as well as success of the reaper, mailed to post-paid applications. J. S. WRIGHT, 24 4* "Prairie Farmer" Warehouse, Chicago, Ill.

SHINGLE MACHINES.—Wood's patented improvement in Shingle Machines, is unquestionably the best ever offered to the public. The undersigned is now at the West, offering rights in this machine for sale. It is a rare opportunity for a safe and profitable investment in a machine without a rival, for the purpose to which it is applied. Parties wishing to purchase with me can do so by addressing J. D. JOHNSON, 21 7

A. B. ELY, Counsellor at Law, 52 Washington street, Boston, will give particular attention to Patent Cases. Refers to Messrs. Munn & Co., Scientific American. 27 15*

\$500 REWARD.—For an Invention to Prevent the Alteration of Bank Notes.

Chemists and others. In order to prevent the loss and annoyance occasioned by the ALTERATION of Bank Notes either by changing the name of the Bank, or the denomination of the Bill, as practiced by counterfeiters, and to procure an effectual barrier to such practices, by encouraging the invention of materials, such as Ink and paper, of a nature to afford in either or in any combination of them, the best protection—the Executive Committee of the Association of Banks for the Suppression of Counterfeiting, will pay the sum of Five Hundred Dollars to any person who shall invent the best mode, in the opinion of the Committee, of accomplishing the object named. All plans to be submitted to the undersigned on or before the 25th day of March next, and to be accompanied with such explanations of the materials and processes as the party applying may be willing to disclose. Each applicant to lodge with the Treasurer of the Association, Henry M. Johnson, Esq., for the term of three months, the sum of one hundred dollars, which shall be paid to any person who shall, during that time, alter, by removing and printing anew, any material portion of a bill or note prepared in accordance with the plan submitted, in such a manner that the alteration would, in the judgment of the Committee, be likely to pass unsuspected. And if, at the end of said three months, no one has been able to effect such alteration, and the Committee are satisfied that the materials proposed will stand all the tests which the present knowledge of chemistry affords, then the hundred dollars will be returned, and the reward shall be over to the successful applicant, and the hundred dollars deposited by each of the other applicants to be returned to them respectively. Per order of the Executive Committee, J. M. GORDON, Secretary, Columbian Bank, Boston, Mass., Jan 24, 1854. 27 7

NEW HAVEN MANUFACTURING COMPANY

New Haven, Conn., (Successors to Scranton & Parshley) have on hand Power Planers, to plane from 3 to 12 feet; slide lathes from 6 to 18 feet long; 3 sizes of hand lathes, with and without shafts; and counter shafts: universal chucks; drill presses, index plates, bolt cutters, and slide rests. The N. H. M. Company also have the right for Harrison's patent Flour and Grist Mill for the term of five years, and are prepared to furnish these superior mills at short notice. They are unequalled by any other mill, and will grind from 30 to 30 bushels per hour, and will run without heating, being self-cooling. They weigh about 1400 lbs. are of the best French burr stone, 30 inches in diameter; are snugly packed in a cast-iron frame, price of mill \$200, packing \$5. For cuts, prices, and further particulars apply by post-paid, as above, or to S. C. HILL, agent, N. H. Co., 13 Platt st., N. Y. 26 7

AMERICAN RAILROAD JOURNAL.—This Journal, the oldest in the world devoted to the Railroad interest, will hereafter contain, in addition to its usual contents, a full and comprehensive digest of the Railway and Mechanical Engineering, prepared under the direction of a practical engineer and mechanic. Improvements in Railways, Railway Equipments, and especially in Locomotives, will be duly described and illustrated. Inventors and improvers will find the Journal the best advertising medium, as it is taken by nearly all Railroad Companies and Engineers in the country. Published every Saturday at No. 5 Spruce st. by JOHN H. SCHULTZ & CO., at \$5 a year in advance. 23 5*

PORTABLE STEAM ENGINES.—GEORGE VAIL & CO., Speedwell Iron Works, Norristown, N. J., LOGAN VAIL & CO., No. 9 Gold st., N. Y., are prepared to furnish Portable Steam Engine from four to eight horse power, with locomotive boilers. These engines are recommended for their simplicity, durability, and economy, being made from the best material, and designed for practical use. They are placed on wheels convenient to be moved from place to place, and are shipped in working order: for plantation use, machinist, or others wanting small power, these engines will be found superior to any others in use. A Silver Medal was awarded at the late Fair of the American Institute, and a premium in cash of \$100 at the Maryland State Fair, held at Baltimore in October last. Persons writing us by mail will be particular to give their address in full. 21 38*

JOHN PARSHLEY, No. 5 and 7 Howard st., New Haven, Ct., manufacturer of Machinists' Tools, and Steam Engines, has now finishing up 25 Engine Lathes, 6 feet shears, 4 feet between centers, 15 inches swing, and weighs about 1100 lbs. These Lathes have back and screw gear, jib rest, with screw feed, and the rest is so arranged that the tool can be adjusted at any point the work may require, without unfastening the tool, hence they possess all the good qualities of the jib and the weight lathe; they are of the best workmanship. Price of Lathe with count shaft and pulleys, \$155 cash. Give full description of the lathe, can be had by addressing as above, post-paid. Also four 30 horse power vertical Steam Engines with two cylinders. Price of engine with pump and heater, \$300 cash. For particulars address as above. 19 7

C. B. HUTCHINSON'S PATENT STAVE Cutting Machines.—The best in use, and applicable alike to thick and thin staves, for barrels, hogheads, &c.; also his Head Cutting and Turning, and Stave Jointing and Crozing Machines. This machinery reduces the expense of manufacturing at least fifty per cent. For machines or circular rights, apply to C. B. HUTCHINSON & CO., Syracuse, N. Y. 24 7

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 vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic, Self-adjusting Conical Packing, Faber's Water Gauge, Sewell's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, etc., etc. CHARLES W. COLEMAN, Consulting Engineer, 64 Broadway. 20 7

PLANING, TONGUING, AND GROOVING.—BEARDSLEE'S PATENT.—Practical operation of these Machines throughout every portion of the United States, in working all kinds of wood, has proved them to be superior to any and all others. The work they produce cannot be equalled by the hand plane. They work from 100 to 200 feet, lineal measure, per minute. One machine has planed over twenty millions of feet during the last two years, another more than twelve millions of feet Spruce flooring in ten months. Working details can be seen at the Crystal Palace, where further information can be obtained, or of the patentee at Albany, N. Y. 1 7

MINING MACHINERY.—Of most approved construction, furnished by FRED'K COOK & CO. Hudson Machine Works, Hudson, N. Y. 15 6m

LEONARD'S MACHINERY DEPOT, 109, Pearl st., and 60 Beaver, N. Y.—Leather Banding Manufactory, N. Y.—Machinists' Tools, a large assortment from the "Lowell Machine Shop," and other celebrated makers. Also, a general supply of mechanics' and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. 1 7

MCALLISTER & BROTHER.—Opticians and dealers in mathematical and optical instruments, No. 45 Chestnut st., Philadelphia, Pa.—The old stand established in 1786 by John McAllister, Senr. Mathematical instruments, separate and in cases, Pape Measures, Spectacles, Spy Glasses, Microscopes, Thermometers, Salometers, Hydrometers, Magic Lanterns, &c., &c. Our illustrated and priced catalogue are furnished on application, and will be sent by mail free of charge. 10 7

NORRIS WORKS, Norristown, Pa. The subscribers build and send to any part of the United States, Pumping, Hoisting, Stamping, and Portable Engines, and Mining Machinery of every description. 4 17*