

TO CORRESPONDENTS.

CORRESPONDENTS—Who fail to sign their names to their letter, cannot expect to receive any attention. G. S. B., or C. E.—We are not able to give the information you ask about the reaper. G. R. W., of C. E.—We have referred your letter to Messrs. Appleton & Co., 346 Broadway for attention. They are very extensive dealers in imported scientific works. D. P., of N. Y.—Certainly we meant that the same form of shuttle as yours existed in other sewing machines. G. W. W., of N. Y.—The principle on which your car ventilator operates, is old and could not be patented. Possibly your mode of construction, which is peculiar, could be secured, although even that is doubtful. H. P. R., of —We have examined your improvement in grinding mills, we regard it as doubtful whether a patent can be had; it is novel, it is slight and your chances for a patent are the same. L. B. A., of Pa.—We discover nothing new or patentable in your horse power machine. A. W., of Ct.—An alarm clock, like the one suggested by you, is an old invention; we have frequently seen the same thing. B. W., of Pa.—Get Smee's Electric Metallurgy, and it will give you all the directions you can acquire for electrotyping. G. R., of N. Y.—Both tubes will discharge the same amount of water in a given time; how can it be otherwise when the fall is just the same and the resistance the same, according as you have stated the question? S. K., of Mass.—We do not see how you can use any other than a common tidal wheel on a one foot fall; we are not acquainted with Valentine's wheel. Your subscription expires with No. 23. C. Y., of N. Y.—It would not be safe for us to publish your article with your language; we can give the substance of it, but would like to see the London Photographic Journal first. S. H., of Maine—The binding of the Sci. Am. would be seventy-five cents; the price of carriage back and forth, we do not know; Gwynne's pump would make a good fire engine driven by water power, and we recommend it or a good common double force pump. H. W., of Wis.—You propose a rifled cannon with a long ball cast with flanges as a substitute for the Lancaster gun. Although the said gun is an oval in its transverse section for the two narrow ends of the ball, it is formed with a twist in the two narrow parts of its bore, so that they are in effect bluntnose grooves, and the narrow ends of the ball are simply projections to fit them. J. P., of N. C.—You had better try your process before proceeding for a patent. As to the advisability of applying see Sci. Am., No. 11, this Vol., and read the article "Is it worth patenting?" F. P. S., of N. B.—You can procure information respecting machines for thrashing and cleaning grass seed more conveniently by letter addressed to Ruggles, Nourse & Mason, Boston, Mass. H. F. C., and J. A., of N. Y.—Balls for cannons, with lead rings, have been proposed before; we do not think yours can be patented. A. T. E., of Ct.—There will not be more power derived from a turbine placed at B than at A, in your sketch, and a patent could not be obtained as far as we can judge. C. H. S., of N. Y.—We do not know of any patent for making black paint from coal, as described by you. You are perhaps the best judge of its worth: it would not be easy to obtain a patent for it. W. & M., of Ky.—Mechanical cradles are quite common: the one described in your letter, in which the cradle acts as the pendulum ball, is similar to Walker's, illustrated in Vol. 7 Sci. Am. We have practically tested this invention, and can bear testimony to its virtues in the nursery department. It will "rock a baby on the tree-top" in the completest manner, and without the aid of a Betty or a Bridget: it is truly a labor-saving machine. D. W., of Cal.—A flexible life-boat, having a folding frame such as you describe, was patented about two years since in England: there is no chance for you to secure it by patent. S. P. B., of Mass.—We have examined the sketch of your churn, and we do not find in it the slightest novelty: we have had models in our office just like it. E. N. C., of Conn.—Your improvement in water closets is a good one, and will obviate the usual objections made against those in common use. Send us a small model. E. O. P., of Iowa—We do not think there is any good ground for a patent for running saws horizontally in the manner described in your letter of the 11th inst. L. R., of N. Y.—You take the Scientific American for the sake of gaining knowledge, and when you send fair questions you wish direct answers: merely subscribing for the paper does not entitle you to any more information than what is published in its columns: it is an act of courtesy on our part if we answer any letters which you send us. Your demand for a re-consideration of our reply to your former letter is too peremptory, and cannot therefore be complied with. We are quite willing to oblige our readers at all times, but we cannot consent to be ordered to do it. S. G. W., of Wis.—Mr. Palmer has not sent us any information respecting your self-raker. J. C., of Pa.—You must let the lifting box of your pump own into the well within at least 25 feet of the water. G. B. C., of N. Y.—The amendments in your case were received daily and transmitted to the Patent Office; your remarks in postscript shall be regarded. G. H., of Pa.—A wheel so constructed that the paddles in downward motion strike the water edgewise and come out in the same manner, is an old device; there is not the slightest chance for you to secure a patent for it. E. R. N., of N. H.—J. R. Chapman's American Rifle is published by Appleton & Co., 346 Broadway; we think the work will suit your purpose. E. A. H., of Va.—The circulars of quack doctors have always been very profuse in this country. We never heard of Dr. G., but dare presume that his specific for the lungs is no better than a physician in your own neighborhood could furnish. J. C., of Ind.—There is some novelty in your device for obtaining rotary motion without the aid of a crank, but to be candid with you, we do not think it will be of any practical value. There are a great many similar devices equally useful, lying dead to the inventor and the public, for the reason that they are not considered so reliable as the crank. E. C., of Mass.—We do not attend to furnishing foreign papers to subscribers in this country, and cannot inform you how you can procure the work you want, except upon application to the publisher. W. H. M., of N. C.—Your ideas in regard to collisions on railroads appear to be new, but we do not believe that you could induce any R. R. Co. to adopt it; they are very slow to take hold of any improvements.

A. Q., of N. Y.—You must be aware that it is very difficult to get a patent on a water wheel, yet we think yours is new, and would advise you to send us a model for further examination. R. W., of Pa.—Hinges constructed on the principle of an inclined plane, so as to raise the door when in the act of opening, are at least fifty years old. H. S., of Pa.—An adjustable tongue for a pen is not new we have now a model of one in our possession. G. J. H., of O.—We do not see any difference between your wheel and many that are in common use, and which are held to be very good. Money received on account of Patent Office business for the week ending Saturday, Jan. 27:— C. M. E., of Pa., \$25; H. S. W., of N. H., \$25; R. D. N., of N. H., \$25; S. & C., of N. Y., \$20; A. D. R., of N. Y., \$50; C. A. N., of Mass., \$10; W. F., of N. Y., \$20; J. P., & W. S., of O., \$30; S. H. H., of R. I., \$30; J. L., of L. I., \$35; G. B. A., of Ct., \$25; J. J., & H. F. M., of Ind., \$50; P. M., of Ill., \$10; F. P. H., of Pa., \$25; W. B., & Co., of N. Y., \$30; M. & K., of Wis., \$20; R. M. C., of N. J., \$25; E. M. D., of Va., \$25; F. Y., of Ky., \$25; J. W. H., of R. I., \$40; J. W. A., of N. Y., \$30; C. W., of Tenn., \$55; G. W. Z., of O., \$20; N. W., of Ala., \$30; C. W. L., of R. I., \$30; L. L., of Mass., \$0; E. B. L., of N. Y., \$30; B. & C., of N. Y., \$150; W. L., of Md., \$50; J. S. P., of N. Y., \$55; A. M., of Pa., \$110; I. & S., of N. Y., \$30; E. R., of O., \$30; J. W., of Ct., \$65; W. H. G., of N. Y., \$55. Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Jan. 27:— C. M. E., of Pa.; H. S. W., of N. H.; C. W., of Tenn.; L. H., of N. Y.; R. D. N., of N. H.; W. H. Z., of N. Y.; A. C. F., of Pa.; F. P. H., of Pa.; J. J. & H. F. M., of Ind. (2 cases); G. B. A., of Ct.; J. C., Jr., of Ct.; R. M. C., of Pa.; E. M. D., of Va.; F. Y., of Ky.; H. & T., of Ill.; J. L. of N. Y.; W. H. G., of N. Y.

Important Items. BACK NUMBERS AND VOLUMES—We have the following numbers and volumes of the SCIENTIFIC AMERICAN, which we can supply at the annexed prices:—Of Volume 5, forty numbers; price in sheets, \$1; bound, \$1.75. Of Volume 6, all; price in sheets, \$2; bound, \$2.75. Of Volume 7, all; price in sheets, \$2; bound, \$2.75. Of Volume 8, none complete, but about 30 numbers in sheets, which will be sold at 50 cents per set. Of Volume 9, complete in sheets, \$2; bound, \$2.75.

We are able to furnish all the back numbers of the present volume of the SCIENTIFIC AMERICAN, and to new subscribers we shall continue to send the back numbers as long as we have them, so as to render their volumes complete.

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 enclosing \$1 for fees 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 the receipt of their funds.

Table with 2 columns: Terms of Advertising, Price. 4 lines, for each insertion, \$1.00. 8 " " " " 2.00. 12 " " " " 3.00. 16 " " " " 4.00. 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.—MESSRS. MUNN & CO., Publishers and Proprietors of the SCIENTIFIC AMERICAN, continue to prepare specifications and drawings, and attend to procuring patents for new inventions in the United States, Great Britain, France, Belgium, Holland, Austria, Spain, etc., etc. We have constantly employed under our personal supervision a competent board of Scientific Examiners, which enables us to despatch with great facility a very large amount of business. Inventors are reminded that all matter entrusted to our care are strictly confidential, and hence it is unnecessary for them to incur the expense of attending in person. They should first send us a sketch and description of the invention, and we will carefully examine it, state our opinion, and the expense of making an application, if deemed new and worthy of it. 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 toward making an application. 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. It is very important that trustworthy and competent agents should be employed in securing patents, as great care is necessary in the preparation of the papers, as well as integrity in taking proper care of the case until the inventor is duly invested with his legal rights. Parties intrusting their business in our hands can rely upon prompt and faithful attention. Most of the patents obtained by Americans in foreign countries are secured through us; while it is well known that the largest proportion of patents applied for in the U. S., go through our agency. The offices of Messrs. Munn & Co.'s American and Foreign Patent Agency are at 128 Fulton Street, New York; London, No. 32 Essex St., Strand; Paris, No. 29 Boulevard St. Martin; Brussels, No. 8 Rue D'Or.

ANGLO AMERICAN AGENCY—Office No. 30 Hatton Garden, London, for the introduction and sale by commission of American Manufactures, machinery, inventions, and articles suitable for the European and British markets. Parties desirous of introducing their goods to the notice of the European public, will find this the most advantageous, direct, and economical method. All communications must be post-paid, addressed to No. 20 Hatton Garden, London.

NEW HAVEN MANUFACTURING COMPANY—Machinists' Tools. 65 Iron planers of all sizes; 350 Engine and Hand Lathes, all sizes; 50 Upright and Horizontal Drills; 25 Bolt Cutters; 10 Gear Cutters; all kinds and sizes of Chucks, Slide Rests, Hand Drills, &c. These tools are of superior quality, and as they are built by the quantity, can be afforded and will be sold at low rates. For cuts giving full description and prices, address New Haven Manufacturing Co., New Haven, Conn.

FOR SALE—A pleasant manufacturing business, south of Philadelphia, paying 30 per cent. doing a business, nearly all cash, of \$1000, which may be doubled—new machinery, the owner wishes to leave the country. Any one having \$2000 can hear further by addressing J. L. WITSON, Baltimore, Md.

UNITED STATES PATENT OFFICE.

Washington, Jan. 11, 1855. ON THE PETITION of Loring Coes, of Worcester, Mass., praying for the extension of a patent granted to him on the 16th day of April, 1841, for an improvement in "screw wrenches," for seven years from the expiration of said patent, which takes place on the 16th day of April, 1855. It is ordered that the said petition be heard at the Patent Office, on Monday, the 2nd 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. The testimony in the case will be closed on the 22nd of March; depositions and other papers relied on as testimony, must be in the office on or before the morning of that day, 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.; Evening Argus, Philadelphia, Pa.; Scientific American, New York; and Boston Post, Boston, Mass., once a week for three successive weeks previous to the 2nd 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.

UNITED STATES PATENT OFFICE.

Washington, Jan. 8, 1855. ON THE PETITION of Jesse Reed, of Marshfield, Mass., praying for the extension of a patent granted to him the 16th day of April, 1841, for an improvement in "Pumps," for seven years from the expiration of said patent, which takes place on the 16th day of April, 1855. It is ordered that the said petition be heard at the Patent Office on Monday, the 2nd 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. The testimony in the case will be closed on the 22nd day of March, 1855; depositions and other papers relied upon as testimony must be filed in the office on or before the morning of that day, 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, Penn.; Scientific American, N. Y.; and Boston Post, Boston, Mass., once a week for three successive weeks previous to the 2nd 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.

BOOTH'S PATENT GRAIN SEPARATOR—Manufactured at Cayahoga Falls, Ohio, warranted to be the best thing of the kind ever used for milling purposes, with horizontal and perpendicular blast, also improved shaking riddle of perforated copper, giving a smooth surface, cleans from 10 to 500 bushels per hour of wheat, corn and buckwheat. Sections where garlic, oats, smut balls, etc., are troublesome, it is indispensable to the manufacture of good flour. A more particular account will be given by addressing the manufacturer at Cayahoga Falls, Ohio. J. L. BOOTH.

CLIPPER AMONG THE MONTHLIES.—The Monthly Nautical Magazine, devoted exclusively to the Maritime interests of the United States, embracing shipbuilding, commerce, navigation, and marine engineering, will commence its second volume in April, 1855, enlarged to 96 pages. This work contains draughts of some of the finest vessels of the age, with other engravings, and is one of the most valuable publications in the country. Terms, single copies \$5 per annum, or \$2.50 per volume. Club Rates—Five copies for \$25, and ten copies for \$45. Sample copies sent when requested. Address GRIFITHS & BAILEY, Editors and Proprietors, 79 John St., New York.

OUR CATALOGUE, of Optical, Mathematical, and Philosophical Instruments, in pamphlet form; a new edition, with numerous illustrations, is now in press and will be issued in a few weeks. This Catalogue is furnished on application, and sent by mail to all parts of the United States and the Canada free of charge. CALLESTER & BROS., Opticians. (Established in 1786.) at their new store, 194 Chestnut street, Philadelphia.

Cranberry Plants.—Of the bell or egg-shaped variety; they are the greatest bearers, often produce from 2 to 300 bushels per acre, and will keep well, if properly gathered, and can be raised on poor swampy land where nothing else will grow. Circulars relating to culture, price, &c. will be forwarded gratis to applicants. For sale by F. TROWBRIDGE, dealer in trees, plants, &c., New Haven, Ct.

JOHN STOKELL, Jr.—No. 26 Platt st., New York, manufacturer of Regulators for railroad companies, watchmakers, and others; clocks for churches and public buildings of any kind. Models of machines and light machinery in general.

PROFITABLE INVESTMENT.—Can be made by purchasing rights of my Patent Tanning Machine, patented Aug. 29th, 1854, pronounced by good judges to be the best machine in use; it is adapted to all kinds of work including double and capstons for car or other heavy work, will do the work of from three to eight ordinary machines, can be set in one minute for boring or squaring the ends of stuff for rights or machines. Address C. P. S. WARDWELL, Lake Village, N. H.

TOOLS FOR INVENTORS.—CHARLES KIRCHHOFF, Manufacturer of Mathematical, Scientific, Philosophical and Artistic Instruments, Machines, &c., corner of West Broadway and Thomas street, New York.

HUB MORTISING MACHINE.—Price Reduced.—We have finished a few of Roys and French's patent, undoubtedly the best machine for the purpose ever invented. We will take back the machine and refund the money, in all cases, if they fail to satisfy buyers. Workmen and carriage makers will do well to give them a trial. They will bore and mortise thirty to forty hubs a day, and answer also for other work. TEVIS & BARBAROUX, Louisville, Ky.

TO MANUFACTURERS, Capitalists, and Railroad Contractors.—Lyon's improved Ditching Plow, figured and described in the Scientific American, Vol. 10, page 116. The subscribers are now ready to dispose of territorial rights to manufacture and sell the above machine; they are a valuable machine for grading and ditching for rail and common roads. LYON & LEWIS, proprietors, Farmington, Van Buren Co., Iowa.

TO LET, WELL LIGHTED ROOMS with Steam Power, at low rates, in the new buildings 7, 9, 11, and 13 Canal, corner of Elm; and 98, 100, and 102 Walker St. Apply to M. J. GAUDU, Engineer, 102 Walker St.

TEVIS & BARBAROUX, LOUISVILLE, KY.—Manufacturers of Steam Engines, Mill Machinery, superior Force and Lift Pumps, cast Iron Screw Pipes for gas, steam, or water, largely used by railroads in supplying water stations, or suction pipes for pumps, etc. being cheaper and better than copper or lead. Tobacco, Lard, Timber, and Mill Screws, always on hand. Cast Iron Railings, Railroad and Car wheels, other castings for railroads, and a general job work.

MACHINE GROUND CIRCULAR SAWS.—(Patent applied for.) Mill men would do well to try these saws, are perfectly free from thin or thick places, can be used thinner and with less set, and run faster than any other hitherto made. All diameters and thicknesses warranted perfectly true. HENSHAW & CLEMSON, 31 Exchange street, Boston.

DICTIONARY OF TECHNICAL TERMS.—In French, English, and German. A new work presenting all the terms used in science and art. The terms are first given in French, then in English and German. It is the first of three volumes arranged differently, and is a very useful work. For sale at this office, price \$1.21

THE FRENCH EXHIBITION.—Parties who have applied for space in the French Palace of Industry, and who do not intend to be present at the Exhibition, are recommended by the undersigned to arrange with Messrs. Carissal & Co., No. 28 Boulevard St. Martin, Paris, who are prepared to put upon Exhibition, attend, and effect sales of articles intrusted to their care. It is a responsible concern. S. H. WALES, State Commissioner, Scientific American Office.

BUFFALO MACHINERY DEPOT.—Terrace St. and 36 Lloyd st., Buffalo; J. W. HOOKER, Proprietor, H. C. Brown, Superintendent, offers for sale Machinists' tools of all kinds: Engine Lathes, Planers, Drills, Chucks, Boring Mills; also machinery of all kinds on hand or furnished to order.

STAVE AND BARREL MACHINERY.—Hutchinson's Patent. This machinery which received the highest award at the Crystal Palace, is now in daily operation there. Staves, heading, &c., prepared by it are worth to the cooper 20 to 40 per cent. more than when finished in any other way. Special attention is given to the improved Stave Jointer. A. B. HUTCHINSON & CO., Crystal Palace, or Auburn, N. Y.

PATENT DRIERS.—Zinc Driers, Graining Colors, Stove Polish, Gold Size, &c., &c., 114 John street, New York. QUARTERMAN & SON, Manufacturers.

HARRISON'S GRAIN MILLS.—Latest Patent.—\$1000 reward offered by the patentee for their equal. A supply constantly on hand. Liberal commissions paid to agents. For further information address New Haven Manufacturing Co., New Haven, Conn., or to S. C. HILLS, our agent, 12 Platt Street, New York.

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 N. G. Norcross's patented machine can be purchased on application to N. G. NORCROSS, 208 Broadway, New York. Office for sale of rights at 208 Broadway, New York; Boston, 27 State street, and Lowell, Mass.

CHEAP LIGHT—A. M. MACE, manufacturer of atmospheric or Benzole Gas Machines: size from 2 to 100 lights. All orders promptly executed corner of Main street and Harrison avenue, Springfield, Mass.

NOTICE.—The connection in business between SHERRY & BYHAM is hereby dissolved by mutual consent. JOHN SHERRY is fully authorized and empowered to settle all out-standing claims, and to whom all bills must be presented for payment. JOHN SHERRY, PHRAIM N. BYRAM.

MACHINISTS TOOLS.—SHRIVER & BROS., Cumberland, Md., (on B. and O. Railroad, midway between Baltimore and the Ohio River), manufacturers of Lathes, Iron Planers, Drills and other machinists' tools.

IRVING'S PATENT SAFETY CIRCULATING STEAM BOILER.—This is the most safe, economical, compact, and convenient boiler devised, occupying less than half the space, consuming only half the fuel, generating more steam of a better quality, and requiring less labor in management and use than any other known. The rapid and powerful circulation which it secures, prevents incrustation or scale, and preserves the internal surfaces fresh and clean. On this account it is believed to be better adapted to salt or turbid waters than any boiler extant. Its compactness, its strength, its economy of space and fuel, and its rapid generation of steam, peculiarly adapt it to the navigation of our western rivers, as well as to all stationary, portable, and marine purposes. The attention of all consumers of steam, of mechanics and engineers, is invited to a critical examination of its merits. Boilers of all sizes furnished on short notice. Rights negotiated and circulars obtained on application at the office of the Company, W. F. PHELPS, Sec'y Irving Boiler Company, 347 Broadway.

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 Cental Packing; Fawcett's Water Gauge; Sewell's Safetyometers, Dugdon's Hydraulic Lifting Press, Roebbling's Patent Wire Rope for hoisting and steering purposes, etc. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway.

PORTABLE STEAM ENGINES.—S. C. HILLS, No. 12 Platt st., N. Y., offers for sale these Engines, with Boilers, Pumps, Heaters, etc., all complete, and very compact, from 2 to 10 horse power, suitable for printers, carpenters, farmers, planters, &c. A 2 1/2 horse can be seen in store, it occupies a space 5 by 3 feet, weighs 1500 lbs. price \$240; other sizes in proportion.

IMPORTANT IMPROVEMENT.—In Rotary Planing, Tonguing, and Grooving Machines. Patented November 21st, 1854. These machines have been thoroughly tested, and their superiority over all others proved beyond a doubt. They will plane very much better and faster than any others now in use, never tearing or throwing out loose knots. Applications for rights and machines, or for further particulars can be made to the patentee, JAMES A. WOODBURY, Winchester, Mass., Jan. 5, 1855.

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.

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

VAIL'S CELEBRATED PORTABLE STEAM Engines and Saw Mills, Bogardus' Horsepower, Smut Machines, Saw and Grist Mill Irons and Gearing, Saw Gummers, Ratchet Drills, &c. Orders for light and heavy forging and castings executed with dispatch. LOGAN VAIL & CO., 9 Gold st., N. Y.

NORTHVILLE MACHINE WORKS.—Manufactory of Machinists' Tools, consisting of Engine Lathes, Power Planers, Hand Lathes, Engine Lathe for turning chair stuff, all of the most improved patterns and quality of workmanship. Worcester, Northville, Mass., August 9, 1854. TAFT & GLEASON.