

TO CORRESPONDENTS.

O. B., of Me.—It is still admitted that some explosions of steam boilers are caused by the explosion of gases. The present state of science is not opposed to such an opinion.

A. McM., of Ohio.—There is an English tinsmith named Jones, in Albany, N. Y., a first-rate mathematician, who may be able to give you a rule for cutting out elbows of stove pipe by rule and compass.

J. M., of R. I.—Can it be possible that you believe sulphuric acid can be obtained from plaster of Paris, by using hydrochloric acid, at less cost than by the common process of manufacture? You do not seem to be aware of the fact that the tall chimneys in English chemical works are now of no use; even Charles Tennant's oven, four hundred feet high, is not required. The hydrochloric acid that formerly escaped, is now all saved. You are certainly mistaken about the cost of this acid.

W. H. S., of Ky.—You will find what you want respecting the cleaning of brass and silver plate on another column.

I. J., of Conn.—We cannot refer you to any work containing an account of the manufacture you speak of.

R. J. J., of Ind.—You cannot obtain a patent for the clock-work to operate a fan, &c. It is not patentable. Com. Barron obtained a patent for the same thing in 1830. A patent may be obtained for the other arrangement.

S. F. M., of S. C.—There will be no danger in drinking the rain water from a roof painted red if it is properly filtered through fine charcoal; perhaps you do this.

T. S., of Pa.—A warranted receipt can be furnished to you for two dollars.

J. J. D., of Ct.—Your plan of covering locomotives is a good one, although we think it will be difficult to get railroads to adopt it; we also believe it is entitled to a patent.

G. K. S., of Pa.—We can tell what substances or paints are employed for graining, but this will not enable you to execute the oak imitation—that requires practice.

A. E. C., of Me.—By reference to the advertising columns of this paper you will notice lathes advertised. We do not know of better makers than those who advertise in our columns. Subscribers very often write us for information about machinery—where it can be procured, etc., and we invariably refer them to the paper.

R. M., of N. Y.—We are now securing foreign patents for Noyes' Hammering Machine, and shall soon publish an engraving of it; it is a good invention—of this we have no doubt.

E. A., of Va.—There is no patentable novelty in combining a spring and catch for sash fasteners; the idea is old and well known.

A. A., of N. J.—If you will refer to volume 7 Sci. Am., you will find a full description of the Municipal Fire Telegraph now in use in Boston. You can procure this volume at \$2.75, bound.

B. R. E., of N. H.—Forming a pocket of wire to guard against the operations of a pickpocket is an old idea, and has often been suggested to us.

R. L. D'A., of Cal.—John Wise, of Lancaster, Pa., is the most competent person we know of, who makes balloons.

I. B., of Del.—We do not think there is novelty sufficient in your method of inserting the heads of casks, to warrant an application for a patent. It may be superior to the old system but the novelty is very slight.

H. G., of Pa.—The size of the still for making absolute alcohol depends entirely on the quantity you wish to operate on. A small still will perhaps answer your purpose—you can get a common one made by a good coppersmith.

C. G. C., of Ky.—A sidereal year contains three hundred and sixty-five days, six hours, and nine minutes. For a more full explanation you should peruse some good work on astronomy.

J. E. M., of —.—We do not remember any thing of the recipe for preparing fish, to which you have allude d.

A. J., of Mich.—Your recipe for making ink is a very good one. If the sample you made was too thick, the remedy is to use more water in making it.

J. W., of Pa.—Hemp bagging is manufactured at St. Louis, Mo., Louisville and Marysville, Ky., at least, such manufactures were conducted in these places two years ago, but we were given to understand that they could not compete with the foreign, owing to some way of entering the bagging at a lower rate than the raw material, according to its weight.

I. W., of N. C.—We cannot answer you in regard to Moffit's Thrasher. You had better write to him direct upon the subject. Hydraulic cement becomes quite hard underground, even in water. Common mortar is not adapted for under-drains; use only the cement. We do not know its price.

Money received on account of Patent Office business for the week ending Saturday, Sept. 16:—

J. N. G., of S. C., \$925; E. Y., of Pa., \$20; G. W. B., of Mich., \$50; J. S., of Mass., \$25; B. & C., of N. Y., \$100; W. D. T., of L. I., \$25; B. & C., of Tex., \$30; S. & B., of Mich., \$30; Y. S., of Wis., \$10; L. B., of N. Y., \$30; B. P. H., of Ind., \$55; W. H. M., of Ky., \$50; G. W. S., of N. J., \$10; V. W., of N. H., \$55; J. T., of —, \$25; W. H. B., of N. Y., \$40; H. D., of L. I., \$10; S. W. P., of N. Y., \$150; J. M., of N. Y., \$45; B. D., of N. Y., \$30.

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

P. T., of Pa.; E. T. L., of Va.; E. Y., of Pa.; J. S., of Mass.; W. D. T., of N. Y.; J. M., of N. Y.; S. & B., of Mich.; V. W., of N. H.; G. W. S., of N. J.; J. S. G., of Mich.; G. W. B., of Mich.; J. N. G., of S. C.; C. W., of N. Y.; W. J. S., of N. Y.; R. W., of O.

Important Items.

PATENT LAWS, AND GUIDE TO INVENTORS.—We publish and have for sale, the Patent Laws of the United States—the pamphlet contains not only the laws but all information touching the rules and regulations of the Patent Office. Price 12½ cents per copy.

BINDING.—We would suggest to those who desire to have their volumes bound, that they had better send their numbers to this office, and have them executed in a uniform style with their previous volumes. Price of binding 75 cents.

FOREIGN SUBSCRIBERS.—Our Canada and Nova Scotia patrons are solicited to compete with our citizens for the valuable prizes offered on the present volume. [It is important that all who reside out of the States should remember to send 25 cents additional to the published rates for each yearly subscriber—that amount we are obliged to pre-pay on postage.]

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.

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. Subscribers who have missed numbers on the Volume just closed, can be supplied with copies to fill the vacancy, excepting the following numbers: 1, 6, 9, 11, 22, and 23.

ADVERTISEMENTS

Terms of Advertising.

Table with 2 columns: Number of lines and Price. 4 lines, each insertion, \$1.00; 8 lines, each insertion, 2.00; 12 lines, each insertion, 3.00; 16 lines, each insertion, 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.

THE SCIENTIFIC STAIR-BUILDER by Robert Riddell; atlas quarto. Illustrated with forty plates. Price \$5.—This is a work that should be in the hands of every architect, builder, and mechanic. The author having stripped the subject of all mystery and unnecessary lines, so that an ordinary workman can accomplish with ease and certainty, the most difficult and intricate description of stairs. It embraces the greatest amount of useful and original matter that has ever been published on this branch of art for which the author's well-established reputation is a sufficient guarantee. The utmost care has been taken to arrange the practical diagrams, in order that they may meet the wants of those who have little or no experience in this art, and to furnish the most simple and comprehensive methods of attaining the object in view. Stone-cutters, masons, and all connected with building, are interested in this valuable book. John E. Carver, Architect, 51 Sixth street, Philadelphia, is the principal agent for the United States. All orders must be accompanied with the money. Single copies \$5. The work may also be had at all the principal book stores in the large cities of the United States.

MILLWRIGHT AND MACHINE WORK.—The subscriber keeps on hand and manufactures to order, Steam Engines of the following sizes, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30, 35, 40, 50 horse power. The Engines are of the simplest, most economical, and substantial construction, and will be sold at the lowest possible terms. Also Saw Mills and Saw Mill Machinery of every description. Shafting, Gearing, &c., sold out and put up in the most approved and workmanlike manner. THOS. J. WELLS, Twenty-ninth Street and Eleventh Avenue.

1854—WOODWORTH'S PATENT Planing, Tonguing, and Grooving Machines.—Ninety-nine hundredths of all the planed lumber used, continues to be dressed with Woodworth's Machines. For improved machines on iron frames, and rights to use in all the unoccupied Towns in New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y.

TWO MACHINISTS.—Wanted, for immediate use, a Planing and Grooving Machine, with a circular saw to be worked from a drum in an adjoining mill, with a power from 5 to 10 horse. Apply to WINSLOW & LAWRENCE, No. 4 Jones Lane, Front st., N. Y.

NEW IMPROVED MAN POWER.—This consists in arranging two levers, that a man standing on the lower one, and bearing down and lifting up on the upper one, being connected in such a way, which performs the work of two men, and by using toggle joints on the plunger of the Fire Engine and Ship's Pump in connection with the levers, that one man can perform with the machine the labor of several men. Daniel Tallcot of New York city, is the inventor. Steps to obtain a patent have been taken. Office, No. 34 Moore Street.

NEW HAVEN MANUFACTURING COMPANY.—Machinists' Tools. Iron planers and Engine Lathes of all sizes. Hand Cutters, Gear Cutters, Drills, Box Cutters, Chucks, &c., on hand and being built by the quantity, which enables us to give our customers a very full description and prices, address New Haven Manufacturing Co., New Haven, Conn.

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.

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

CHEAPEST AND BEST.—The New York Weekly Sun is to be sent to subscribers after Oct. 1st, at 75 cents a year, (41 pays for 16 months), three copies for \$2, or 25 copies for \$15, and \$100 each premium to be divided among those who send in post subscribers between Sept. 15th and Feb. 3rd, 1855. Specimen copies gratis. Address, (post-paid) MOSES S. BEACH, Sun Office, New York.

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 30 to 40 per cent. more than when finished in any other way. Special attention is invited to the improved Stave Jointer. Apply to C. B. HUTCHINSON & CO., Crystal Palace, or Auburn, N. Y.

RENSELEAR POLYTECHNIC INSTITUTE.—Designed for the education of Architects and Civil Engineers, including Railway, Hydraulic, Topographical, and Mining Engineers. For copies of the Annual Register, giving full information respecting the Institute, apply to E. FRANKLIN GREEN, Director, etc., R. P. L. Troy, N. Y.

TO IRON FOUNDERS.—Scotch and American Pig Iron, English Sheet Iron and Boiler Plates. Fire Bricks, Clay and Sand, and all kinds of Iron Foundry Facing Materials for sale by G. O. ROBERTSON, 135 Water street, (corner of Pine) New York.

STEAM ENGINE.—80 Horse Power, for sale by the Lawrence Machine Shop. It is now driving the machinery in the Crystal Palace, and can be delivered the 1st of Nov., 1854. Apply to Gordon McKay, Treasurer, office 51 Broad street, New York, 7 State street, Boston; J. O. Hooley, Superintendent, Office in Lawrence, Mass.; or David A. Gray, Selling Agent, Office at the Machinery Dept. of the Lawrence Machine Shop. The Lawrence Machine Shop have now on hand Locomotives, Steam Engines, all kinds of Machinists' Tools, large Lathes (finished) for Locomotive Drivers and Planing Machines (that plane 3 feet square by 12 feet), Parker and Turbine Water Wheels, Wool Cards and Jacks, Shafting and Pulleys, &c., promptly made to order. A superior article for Oak Tanned Sewed Leather Belting constantly on hand. Inquire as above.

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

UNITED STATES PATENT OFFICE.

Washington, August 21, 1854. ON THE PETITION of Milton D. Whipple, of Somerville, Mass., praying for the extension of a patent granted to him on the 28th day of October, 1840, for an improvement in "machines for cleaning wool from burs and other foreign matter, and also for ginning cotton," for seven years from the expiration of said patent, which takes place on the 28th day of October, 1854.

It is ordered that the said petition be heard at the Patent Office, on the 23rd of October 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 13th of Oct.; 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.; Evening Argus, Philadelphia, Pa.; Scientific American, New York, and Post, Boston, Massachusetts, once a week for three successive weeks previous to the 23rd day of Oct. 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, August 18, 1854. ON THE PETITION of Solomon Andrews, of Perth Amboy, New Jersey, praying for the extension of a patent granted to him on the 6th of December, 1840, for an improvement in the manner of constructing padlocks for mail boxes and other uses, called the clam-shell padlock," for seven years from the expiration of said patent, which takes place on the 5th day of December, 1854.

It is ordered that the said petition be heard at the Patent Office on Monday, the 13th of November 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 from 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 3d of November; 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, New York; and Post, Boston, Mass., once a week, for three successive weeks previous to the 13th day of November 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, August 18, 1854. ON THE PETITION of Jordan L. Mott, of Mott Haven, praying for the extension of a patent granted to him on the 1st day of December, 1840, for an improvement in "the mode of constructing a combined cauldron and furnace for the use of agriculturists and others," for seven years from the expiration of said patent, which takes place on the first day of December, 1854.

It is ordered that the said petition be heard at the Patent Office on Monday, the 6th day of November 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 31st day of October, 1854; 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.; Evening Argus, Philadelphia, Penn.; Scientific American, New York; and Post, Boston, Mass., once a week for three successive weeks previous to the 6th of November 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.

MAGIC LANTERNS AND DISSOLVING Views for Sunday Schools, Academies, and Public Exhibitions, with Scriptural, Astronomical, Temperance and other paintings. A priced and Illustrated Catalogue of Lanterns and Slides sent by Mail, free of charge. McALLISTER & BROTHERS, 13, 48 Chestnut Street, Opticians, Philadelphia.

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

NEW PATENT FLOUR AND GRAIN MILL.—Patented June 6th, 1854. The subscriber is finishing the following mills: 8 twenty inch, price \$100; 6 thirty inch, \$225; 3 three feet, \$300; 2 four feet, \$400, and will pay \$1,000 for any other mill as a durable, simple, economical power, which will grind as much from one dressing, which will heat the flour and meal as little, and is as easily kept in order. Oats sent to post-paid applications, and liberal commissions allowed to agents for cash orders. EDWARD HARRISON, New Haven, Conn., July 24th, sole owner of all interest in the patent right.

JOHN PARSHLEY, manufacturer of machinists' tools, No. 5 and 7 Howard street, New Haven, Ct., is now finishing a lot of iron planers to plane 8 1/2 feet long, 30 in. wide, and 26 in. high, having the down and angle feed in the cross head, the planers all of the best quality, and prices extremely low for the quality. Oats with full particulars can be had by addressing as above, post-paid.

LARGE POWER PLANER.—Will plane 30 feet long, 3 feet 5 in. wide, and weighs over 6 tons. Now ready for delivery, and will be sold lower by \$300 than the same quality of machine can be bought anywhere else. Warranted good. Call and see, or address, (post-paid) C. POTTER, Jr., Westery, R. I.

JOHN PARSHLEY, Manufacturer of machinists' tools, No. 5 and 7 Howard street, New Haven, Ct., has for sale a locomotive lathe, which has not been used more than two months, all told, and is as good as new, its first cost was \$1250; having come into present hands with a large lot of other tools, it is now offered for the small sum of \$900 cash; weighs 9 tons, head boring of the arbor is 12 in. diameter, swings 7 1/2 feet, has counter shaft and pulleys. Oats of the same can be had by addressing as above, post-paid.

PATENT SASH FASTENER.—The subscriber will sell rights to make and sell his improved Sash Stopper and Fastener as follows:—License for any town of not over 5,000 inhabitants, and one dozen fasteners with directions, \$5; for larger towns and cities or counties on liberal terms. Letters to be addressed (post-paid), W. S. HADAWAY, Chiltonville, Vol. P. S.—See engravings of this invention in No. 51, Vol. 9, Sci. Am.

IRVING'S PATENT SAFETY CIRCULATING

STEAM BOILER.—For Stationary, Locomotive, and Marine Engines. These boilers having been thoroughly tested by scientific experiment and practical use, are being rapidly introduced into every part of the United States. Their claims to superiority are fully supported by the united testimony of highly respectable parties, who have given them the most successful trials. The following are among the chief advantages of this Boiler: 1st. Great increase of heating surface, with diminution of bulk. 2nd. Economy of fuel—a saving of more than 50 per cent. being effected over other boilers. 3rd. Economy of space, compactness, and strength of form. 4th. Increased safety from explosion. 5th. Freedom from incrustation. Circulars obtained on application at the Company's Office. Boilers of any required power, furnished on short notice. Rights negotiated for all parts of the United States, England, France, and Belgium.—All communications promptly attended to.

W. F. PHELPS, Sec'y Irving S. Boiler Co., 347 Broadway, N. Y.

KENTUCKY LOCOMOTIVE WORKS.—Corner

of Kentucky and Tenth streets, Louisville, Ky.—The proprietors of the Kentucky Locomotive Works would respectfully inform Railroad Companies and the public generally, that, having completed their establishment, they are now prepared to receive and execute orders with fidelity and dispatch. They will contract for Locomotives, Passenger, Freight, Gravel, and Hand Cars, of every style and pattern, as well as all kinds of Stock and Machinery required for railroads.—Particular attention will be paid to Repairing, for which they have every facility. They are also prepared to contract on favorable terms for building all kinds of Machine Tools, such as Turning Engines, Lathes, Planers, Drills, Slotting, Spining, and Shaping Machines of every variety of pattern. Having also a large Foundry connected with the establishment, orders for castings are solicited, and will be filled with promptness. Car Wheels of any pattern can be furnished on short notice. Double and single plate and Spoke Wheels of all sizes constantly on hand. Communications or orders must be addressed to OLMSTED, TENNEYS & PECK, Louisville, Ky.

MECHANICAL ENGINEERING.—CHARLES EH-

MAN & CO., Consulting Engineers and Designers, 333 Broadway, New York. Designs, Working Drawings, estimates and contracts for high or low pressure steam engines (Edman's improved vertical engines), Boilers, Pumps, Presses, Saw and Grist Mills, Tools and Machinery of every description. Particular attention paid to making drawings and working plans for inventions and models, to the construction of patent machines, etc., etc. Arrangements made, and plans furnished for putting up and locating Engines, Boilers, Shaftings, and all kinds of machinery in buildings, etc., etc.

REYNOLD'S DIRECT ACTION and Re-Action

Water Wheel.—This is one of the most simple, cheap, and efficient Iron Water Wheels now in use. For description, cuts, &c., apply to SAML. B. LEACH, Agent, 60 Beaver st., N. Y.

FOR GREASING MACHINERY.—For all purposes

of lubrication, "Metallic Oil" has many recommendations. Its tendency to remain on a smooth surface of metal, instead of running off or evaporating, its property of resisting heat and keeping the bearings of machinery cool, and its freedom from "gum," are important considerations with engineers and machinists. A fair trial will convince any unprejudiced person that it is a very valuable substitute for sperm oil. For sale in quantities to suit purchasers by YOCKNEY & CO., Sole Manufacturers of Cumberland Brothers' Patent "Metallic Oil," Elizabethport, N. J., office 67 Exchange Place, N. Y.

READING'S PATENT CORN SHELLER and

Cleaner—capacity 200 bushels per hour. Premiums awarded in the Fall of 1853. Patent Rights and Machines now for sale at the corner of 2nd Street and Pennsylvania Avenue, Washington, D. C. I challenge the world to produce its equal. Address personally or by mail. WILLIAM READING.

THE EUROPEAN MINING JOURNAL, Railway

and Commercial Gazette. A weekly newspaper, forming a complete history of the Commercial and Scientific Progress of Mines and Railways and an intelligible Synopsis, with numerous Illustrations of all New Inventions and Improvements in Mechanics and Civil Engineering. Office, 26 Fleet Street, London.—Price 2s 6d per annum.

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 Scales, and Vacuum Gauges, Allen & Noyes' Metallic Self-adjusting Coupling Packing, Faber's Water Gauge, Sewell's Salmeter's Dudgeon's Hydraulic Lifting Press, Hoebing's Patent Wire Rope for hoisting and steering purposes, etc. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway.

THE MERIDEN MACHINE CO.—Successors to

Oliver Snow & Co., West Meriden, Conn. Have on hand and make to order a great variety of Lathes, Planers, and other machinists' tools of superior quality and finish. Cuts of these tools may be had on application as above, with full particulars. They also manufacture Farnam's Patent Lift and Force Pumps of all sizes. For mines, factories, railroad stations, &c. Having a large and extensive variety of patterns, the accumulation of over 20 years' experience, and extensive facilities for making light or heavy castings, are prepared to contract for any kind of mill work, mining machinery, &c. New York Office and Sample Room, No. 15 Gold, cor. Platt st.

PHENIX IRON WORKS.—GEO. S. LINCOLN &

CO., Hartford, Conn. Manufacturers of Machinists' Tools. Are constantly making and have now on hand an assortment of Screw Cutting Engine Lathes, viz.: 1. bed 10 feet long, swing 20 inches. 2. bed 14 feet long, swing 30 inches. 3. bed 16 1/2 feet long, swing 40 inches, with improved bed, cast steel spindles, feed motion carried by a screw, toothed rack for moving tool rest by hand, improved gibb rest and tool stock, stationary and traveling back rest; also manufacturers of Lathes for turning Locomotive Driving Wheels, small Power Planers, Upright Drills, Power Punching Presses, &c. Designs of the tools with further descriptions, will be sent by addressing as above.

LEONARD & WILSON.—No. 60 Beaver st., and 109

Pearl st., have constantly on hand and for sale a full assortment of Machinists' and Cooper's Tools, embracing every variety of Engine and Hand Lathes, Iron Planing Machines, Mortising and Teneing Machines, Wood Planers, &c. Also Leather Belting of all sizes made of the best oak tanned butts, stretched on powerful machines, riveted and cemented.

PALMER'S PATENT LEG.—The best appliance

ever invented. Pamphlets containing the testimonials of the first American and European surgeons, and other information concerning this invention sent gratis to all who apply to PALMER & CO., Springfield, Mass.; or 376 Chestnut st., Philadelphia.

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' patented machine can be purchased on application to N. G. NORCROSS, Tool, 208 Broadway, New York.

The printed report of the case with the opinion of the Court can be had of Mr. Norcross, at Lowell, or 27 State street, Boston.

MACHINISTS' TOOLS.—SHRIVER & BROS., Citiz-

berland, Md., (on B. and O. Railroad, midway between Baltimore and the Ohio River), manufacturers of Lathes, Iron Planers, Drills and other machinists' tools.