

TO CORRESPONDENTS.

"J. O. of N. Y."—We should like to see the carbonic acid liquid tested, to decide its economical value in the salt business, but we have doubts about it. The best kind is made by solar evaporation—this plan is largely pursued at Syracuse. The ink is different for printing, because it is mixed with oil or soap which prevents it from adhering like a dye to the paper.

"W. M., of N. Y."—Mr. Morse tried to print letters before he used his present mode but found that the plan now used by him was quickest, and this is our opinion also. We do not believe it would do so well; if you can make it work as fast—then you have got a valuable improvement, but the merit of it will stand or fall by this test. The Patent Office appears to be willing to grant a patent for any telegraph on the chemical side of the question.

"S. A. R., of Ala."—A case of drawing instruments can be purchased here for from \$10 to \$50. The highest priced ones are the cheapest in the end. Benj. Pike & Son, 166 Broadway, can supply you: we do not keep them for sale.

"C. J. T., of Ky."—Personally we are not interested in the rights of "Wood's Patent Shingle Machine," but communications in regard to it can be addressed to this office, as we see the owners every week. The machine gives good satisfaction to all who have used it, and the rights are fast being disposed of.

W. W. B., of R. I.—Your plan seems to be a very good one, but we cannot encourage you to offer it, as it is not probable that the enterprise can be carried into effect at present. A powerful opposition would manifest itself the moment it would be likely to succeed. The Common Council is the proper source to apply to.

"P. C., of Me."—It occurred several years ago; the project has never been revived, and will not be, in our opinion. It is entirely impracticable, and too expensive in the bargain.

"L. F. H., of Vt."—The drawing of your churn has been examined: it is entirely dissimilar to Mr. W.'s, and strikes us as being novel; but you could not obtain a valid patent, for the reason that you have had it in use too long.

"D. M., of Ohio."—Your letter has been handed over to the best engine builder in the city for attention.

"L. L., of Pa."—Since noticing Dr. Gesner's light we have received several letters in regard to it. We presume that Messrs. Walworth, Nason & Guild, 79 John street, will answer all letters sent to them, post paid.

"J. McC., of N. Y."—As soon as we receive advices from L. & J., in regard to the belting; the amount of your bill will be enclosed. We have furnished them with the substance of your letter.

"S. H., of Pa."—We do not think we shall be able to do anything with your discovery; applications of this kind are constantly being made to us, but we find no time from our other business to attend to them. You might advertise it through the papers.

"M. & B., of Mich."—Your sample of wheat was received in fine order, and immediately forwarded to the Patent Office. You may look daily for the result of Mr. Carpenter's application.

"D. B. P., of S. C."—We were gratified to learn that your manufacturing enterprise has been so successful, and we are sincerely obliged to you for the fine list of subscribers you sent us. You understand the philosophy of success in business, it is apparent, and so long as you retain so many in your employ that appreciate and take the "Scientific American," your interests are safe. The agent of another manufacturing establishment wrote us the other day, enclosing in his letter \$20 for subscriptions, adding a note at the bottom that he considered the "Scientific American" as useful in his village as the use of lubricating oil to his machinery—i. e., either were indispensable.

"R. M. C., of N. Y."—Get an engraving published in the Sci. Am. It will be of immense benefit to you.

"B. A."—We are obliged to you for your article on Steam versus Water Power.

"L. L. M., of Mass."—The expenses of a patent are indeed small in comparison with the benefits you will receive from it—be assured of that in your case.

"H. W. S., of N. Y."—The \$2 received from you on the 6th inst., will pay up your subscription to No. 48, Vol. 6.

"G. S. G., of Pa., and J. M., of Del."—We have shipped each of you one of Alcott's Lathes, according to your directions. They were sent Aug. 7th.

J. E. L., of N. Y.; H. H. M., of Ill.; P. McK., of S. C., and D. M. G. of Me.—

Your specifications have been forwarded to your respective places for execution. Please follow the instructions which accompany each of your documents, and return the papers to this office as soon as executed.

Money received on account of Patent Office business, since August 1st, 1850:—

I. Z. A. W., of Phil., \$37; A. & P., of Mass., \$10; M. N., 2nd, of Pa., \$40; T. R. of Conn., \$15; A. C., of N. Y., \$20; N. J. W., of Mass., \$10; J. W. & Co., \$45, and W. H. S., of Phila., \$40.

Back Volumes Scientific American.

We are obliged to inform our patrons that complete sets of all the past Volumes are entirely exhausted.

Those desiring to secure Volume 5 but have delayed subscribing at first, are advised to remit \$2 without delay or they may be disappointed in getting a volume at all, should they wait until the Nos. are all published?

Duggan's Work on Bridges.

Subscribers to Duggan's Work upon Bridges who have paid only \$5, are notified that the balance of the subscription is now due. As Mr. Duggan has been subjected to a great expense in producing this valuable work, he would esteem it as a marked favor if the subscribers would be prompt in remitting for the completion of the Volume. Like many other co-laborers engaged in the field of extending useful publications. Mr. Duggan has not met sufficient encouragement to induce one of less determination than himself to go forward. His intention however is to complete the work, relying upon the generosity of the American Engineer for support, which we have no doubt in the end he will receive.

Sir Isaac Newton told Mr. Conduit that he had often heard his mother say that when he was born he was so little that they might have put him into a quart mug.

A sea-cow has been caught near Jupiter Creek, in Florida, which weighs 1,500 pounds. Barnum, it is said, has bought it.

Important Notice to us!

Whenever any of our friends order numbers they have missed—we shall always send them, if we have them on hand. We make this statement to save much time and trouble, to which we are subjected in replying, when the numbers called for cannot be supplied.

ADVERTISEMENTS.

Terms of Advertising.

One square of 8 lines, 50 cents for each insertion.  
 " 12 lines, 75 cts., " "  
 " 16 lines, \$1.00 " "  
 Advertisements should not exceed 16 lines, and cuts cannot be inserted in connection with them for any price.

Patent Office.

128 FULTON ST.

NOTICE TO INVENTORS.—Inventors and others requiring protection by United States Letters Patent, are informed that all business relating to the procurement of letters patent, or filing caveats, is transacted at the Scientific American Office, with the utmost economy and despatch. Drawings of all kinds executed on the most reasonable terms. Messrs. Munn & Co. can be consulted at all times in regard to Patent business, at their office, and such advice rendered as will enable inventors to adopt the safest means for securing their rights. Arrangements have been made with Messrs. Barlow and Payne, Patent Attorneys, in London, for procuring Letters Patent in Great Britain and France, with great facility and despatch.

MUNN & CO.,  
128 Fultonstreet, New York.

TO IRON FOUNDERS, &c.—Fine ground and bolted Sea Coal, to mix with moulding sand, an approved article ground from selected lump; Charcoal Foundry Backing; Bolted Lehigh Soapstone, Black Lead Foundry Facing; also Fire Clay, and Iron and Brass Founder's superior Moulding Sand, in barrels, for sale by G. O. ROBERTSON, New York. City Office 4 Liberty Place, Maiden Lane, near the Post Office. 474eov

AMERICAN AND FOREIGN PATENT AGENCY.

WE WOULD remind our numerous friends throughout the country, that we still continue to conduct the business of procuring Letters Patent for new inventions in this and all foreign countries, where the right is recognized. Since making arrangements with those eminent attorneys, Messrs. Barlow, Payne & Parken, Editors of the London Patent Journal, we have secured and managed through them, several foreign applications, with the utmost economy and facility. Inventors and others, desiring advice upon this subject, can correspond confidentially with the Editors of this paper.

PATENT ROCK DRILLING MACHINE

The celebrated Rock Drilling Machine, invented by Messrs. Foster & Bailey, of this city, and described with an engraving on page 153 of Vol. 3 of the Scientific American; is now offered for sale in rights to suit purchasers. The machine has been thoroughly tested upon all kinds of rock, and its superiority over every other drilling machine that has yet been invented, must be apparent to every one who has had experience in using machines for this purpose. A silver medal was awarded to the inventors by the American Institute, and while it was exhibiting at the Fair for a few days, it attracted crowded witness its simple but successful operation. A model of the machine, with the "Silver Medal," may be seen at the Scientific American Office, and any letters of enquiry concerning the purchase of rights may be addressed, (post-paid) to MUNN & CO.

P. S.—A valid patent is secured on the above, and the public are cautioned not to infringe the claims. Patent Rights for sale for any State, county, or section, and working drawings furnished to the purchaser. 474f

A LIST OF VALUABLE SCIENTIFIC AND MECHANICAL BOOKS,

FOR SALE AT THE SCIENTIFIC AMERICAN OFFICE.  
 Ranlett's Architecture, 2 Vols., bound, \$12.00  
 Minifie's Drawing Book, 3.00  
 "Scientific American," Vol. 4, 40 Nos., unbound, 1.00  
 Scribner's Mechanics, Tuck, Gilt, 1.25  
 Treatise on Marine and Naval Architecture, published monthly, 12 Nos., each .75  
 Leonard's Mechanical Principles, 1.50  
 Mahan's Civil Engineering, 3.00  
 Morfitt's Chemical Manipulations, 2.50  
 Annual of Scientific Discovery for 1850, 1.00  
 Duggan's great work on the Stone, Iron, and Wood Bridges, Viaducts, &c., of the United States' Railroads. Published monthly in parts to be completed in 12 parts. Parts 1, 2, 3, 4, 5 and 6 now ready, each .75  
 N. B. This work is supplied to subscribers only.  
 Graefenberg Manual of Health, (noticed in No. 41), an excellent work, bound, 75 cts., unbound, .50  
 N. B. The latter sent by mail.  
 Foote's Counterfeit Detector, a new and enlarged edition, with glass, mailable. 1.00

PROSSER'S PATENT LAP-WELDED

Boiler Tubes—Diameter, Number and Length of each at date:—		
Inches.	In Stock.	Afloat.
1 1/4	1221	70
1 1/2	17	10-6
1 3/4	36	10-6
2	250	10-0
2	470	12-0
2	944	14-0
2	581	15-0
2	66	6-6
2	83	4-10 1-2
2 1/4	356	15-0
2 1/2	292	15-0
2 3/4	150	15-0
3	—	15-0
4	23	15-0
5	1	15-0
6	14	15-0

THOS. PROSSER & SON, Patentees,  
August 6, 1850. 28 Platt st., New York.

WOODWORTH'S PATENT PLANING

Machine 1850 to '56.—Recent decisions having finally established all the claims of this patent, the subscriber is prepared to dispose of the right to use the machine in the unoccupied Counties and Towns in the State of New York and in Northern Pennsylvania. These machines as made by the subscriber at one operation reduce to a thickness, plane tongue, groove, head and rabbet all kinds of lumber in a better manner and four times as expeditiously and cheaply as such work can be done by hand or by any other machine. For exclusive or single rights, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 376eov\*

CLOCKS FOR CHURCHES, PUBLIC

Buildings, Railroad Stations, &c.—The subscriber having made important improvements in the construction of Clocks, especially in the apparatus for counteracting the influence of the changes of temperature upon the pendulum, and in the retaining power, (which keeps the clock going while being wound up), together with a most precise method of adjusting the pendulum to correct time, are prepared to furnish time-keepers of a very superior quality, both for accuracy of time-keeping and durability. They speak with confidence, from having tested their performance for several years. The terms of payment will be so arranged as to afford purchasers ample opportunity to test their quality. Address SHERK & BYRAM, Oakland Works, Sag Harbor, Long Island. 403meow\*

CUTTING ENGINE FOR SALE.

The subscribers have for sale a superior and handsomely finished Cutting Engine, for cutting either spur, bevel or spiral gearing, in infinite variety, from the smallest up to 5 feet in diameter, the index having 28,000 holes. The machine has been but little used, and when new cost \$700 and is supplied with iron cones, loose and tight pulleys for driving belts. Address TALLCOT & CANFIELD, Owego, N. Y. 474\*

TO MACHINISTS.

The 6 feet Planing Machine offered for sale, by Faulkner & Lewis, in the four previous numbers of this paper, is now offered for the low sum of \$500. The finish is unexceptionably good in every particular, is worked by three pulleys and one belt; the speed is 3-40 back to one forward; the rack is divided into fifths, which enables it to plane perfectly smooth, which can be tested before purchasing. 464\*

JUST ISSUED.

A new edition of Minifie's Mechanical Drawing Book, substantially bound in paper, which can be forwarded through the mail. Price \$3. For sale by MUNN & CO., Agents, New York. 424f

TO THE THINKERS OF NEW YORK.

KNOX is desirous that every rational man in want of a hat, should, for a moment, think before deciding where they shall supply that want. KNOX thinks that 123 Fulton st., is just the spot. 38 6\*

12 POWER PLANING MACHINES.

SCRANTON & PARSHLEY, New Haven, Conn., have now finishing off 12 power Planers that will plane 8 feet long, 27 inches wide and 24 inches high; these planers are of the first quality, are self-feeding every way; the table is worked by arack and pinion; the bed is 12 feet long. With each planer there is a splining head and counter shaft, pulleys and hangers. They weigh about 4000 lbs.; the price, boxed and ready to ship, is \$625. Also 12 hand lathes, with back gear on iron shears, and legs 7 feet long, swing 20 inches, about 700 lbs. weight—\$75. These lathes are of the first quality. 451f

ALCOTT'S CONCENTRIC LATHES.

We have on hand a few of these celebrated Lathes, which the inventor informs us will execute superior work at the following rates:— Windsor Chair Legs and Pillars, 1000 per 11 hours. Rods and Rounds, 2000; Hoe Handles, 800; Fork Handles, 500; Broom Handles, 150; per 11 hours. This Lathe is capable of turning under two inches diameter, with only the trouble of changing the dies and pattern to the size required. It will turn smooth over swells or depressions of 3-4 to the inch, and work as smoothly as on a straight line, and does excellent work. Sold without frames for the low price of \$25—boxed and shipped, with directions for setting up. Address, (post paid) MUNN & CO., 14tf At this Office

TO PAINTERS AND OTHERS.

American Anatomic Drier, Electro Chemical graining colors, Electro Negative gold size, and Chemical Oil Stove Polish. The Drier, improves in quality, by age—is adapted to all kinds of paints, and also to Printers' inks and colors. The above articles are compounded upon known chemical laws, and are submitted to the public without further comment. Manufactured and sold wholesale and retail at 114 John st., New York, and Flushing, L. I., N. Y., by QUARTERMAN & SON, Painters and Chemists 46 2\*

COTTON, WOOLEN AND SILK MANUFACTURERS' DEPOT.

ANDREWS & JESUP, No. 70 Pine st., N. Y., dealers in articles for the use of Cotton, Woolen and silk manufacturers, and agents for the sale of shearing, carding, burring, napping, wool-picking, flock-cutting and waste machines, regulators, satinet and jean warps, &c. Weavers' reeds and heddles, bobbins and spools, of every description, made to order. Sperm, lard and olive oils and oil soap. 40tf

APPARATUS FOR BORING CYLINDERS

For sale—Price \$500, originally cost \$1000, and is as good as new.—A Vertical Boring Machine, eleven feet long, with apparatus for correctly boring iron cylinders of any size, from 8 inches to 4 feet diameter. This machine is in good order and complete, and the only reason for its being offered for sale is on the ground of the owner relinquishing business. The machinery will be properly packed and placed on shipboard for the price above specified, (\$500.) Letters concerning it may be addressed (post-paid) to this office. MUNN & CO. 46 tf

STEAM ENGINES AND BOILERS.

The undersigned has for sale one engine of 12 horse power, 1 of 6 and 1 of 5 horse power, new and of good quality; also one second-hand engine and boiler, 14 horse power, for \$950, in good repair; 1 of 6 horse power, in good working order, with boiler, for \$300. Steam Boilers made to order at the lowest cash prices and of the best materials; also planers, fan blowers, heaters, pumps, shafting pulleys, &c., at No. 4 Howard st., New Haven, Ct. AARON KILBORN. 42 6\*

WOOD'S PATENT SHINGLE MACHINE.

These excellent machines, illustrated and described in No. 23, Vol. 5, Scientific American, are offered for sale in Town, County and State Rights, or by single machines. There are three sizes, the first cuts an 18 inch shingle, price, \$100; 2nd cuts 24 inch, price \$110; 3rd, 23 inch, \$120. Orders addressed to J. D. Johnson, Redding Ridge, Conn., or to Munn & Co., "Sci. Am." Office, will meet prompt attention. 36 tf

MACHINERY.

C. HILLS, No. 12 Platt Street, N. Y., dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills, Kase's, Von Schmidt's, and other Pumps, Johnson's Shingle machines, Woodworth's, Daniel's and Law's Planing machines, Dick's Presses, Punches, and Shears; Mortising and Tenoning Machines, Belting, machinery oil; Beal's patent Cob and Corn Mills; Burr Mill, and Grindingstones, Lead and Iron Pipes, &c. Letters to be noticed must be post paid. 46tf

BURR MILL STONES.

We have made arrangements which will enable us to supply all kinds of French Burr, Holland and Esopus Mill Stones of the best material and manufacture, at the lowest prices. Burr Mill Stones made to order and warranted to be of the best quality; Burr Blocks for sale.—Orders addressed to MUNN & CO., post-paid, at this Office, will meet with prompt attention. 41tf

MATTEAWAN MACHINE WORKS.

Locomotive Engines, of every size and pattern. Also tenders, wheels, axles, and other railroad machinery. Stationary engines, boilers, &c. Arranged for driving cotton, woolen and other mill. Cotton and woolen machinery of every description, embodying all the modern improvements. Mill gearing, from probably the most extensive assortment of patterns in this line, in any section of the country. Tools, turning lathes, slabbing, planing, cutting and drilling machines. Together with all other tools required in machine shops. Address at the Matteawan Co. Work, Fishkill Landing, N. Y., or at No. 66 Beaver st. New York City, to WILLIAM B. LEONARD, Agent. 40tf

WOODWORTH'S PLANING MACHINE

For sale, the right to use this justly celebrated labor-saving machine in the following States, viz. Pennsylvania west of the Allegheny Mountains, Virginia west of the Blue Ridge, Ohio, Indiana, Kentucky, Tennessee, Wisconsin, Iowa, Missouri, Arkansas, Texas, Louisiana, Florida, Alabama and Mississippi. For particulars apply to the Proprietor, ELISHA BLOOMER, 304 Broadway. 45 6\*

FOREIGN PATENTS.

Procured in GREAT BRITAIN and her colonies, also France, Belgium, Holland, &c., &c., with certainty and despatch through special and responsible agents appointed, by and connected only with this establishment.— Pamphlets containing a synopsis of Foreign Patent laws, and information can be had gratis on application. JOSEPH P. PIRSSON, Civil Engineer, 33tf Office 5 Wall street, New York.

FOR SALE.

Roaring Run No. 1 Metal, unequalled for car wheels, or work needing great strength and fluidity. Address F. B. Dean, Esq., Lynchburg, or the undersigned, at the works. S. C. ROBINSON, 45 4\* Junction Store P. O., Botetourt Co., Va.