

TO CORRESPONDENTS.

"H. L. T., of N. Y."—We like your plan of a propeller well. It is certainly new and patentable, so far as we can judge, but you know that it is not possible to decide upon its merits without experiment. Why? Because there is no real theory on the subject as derived from a similar invention. There are great differences of opinion among the best engineers on this subject. We advise experiment first, for after all this alone will give it a character of whatever kind.

"A. T. B., of N. Y."—Evans' Millwright's Assistant, sold by Messrs. Appleton, N. Y., would suit you very well. There is no work on the Cotton Manufacture later than Ure's. We want a new work entirely, to embrace recent improvements. "Wightwick's Hints" would suit you best.

"G. W. H., of Ind."—We are afraid that the Steam Traveller, will not answer. Steam carriages for common roads have been tried before. One of them was described in Vol. 3, Sci. Am.

"I. S., of Mich."—We have seen a machine for punching the peg holes. It was made by Bigelow. It is now about a year since we saw it. It was for the heels, but he stated that he had also one for the soles. Your composition is for a valuable purpose, but it is only as a composition (combination) that it could be patented. We differ from you in opinion about the railway speed. We believe that the plan would be too expensive, and we are doubtful if it would operate. The firm immovable track has proven to be the best, a positive traction on the rails is required or the locomotive will not run.

"J. A. F., of Ala."—Steam will not move into a vacuum chamber with accelerated velocity, but the reverse. There is one principle clear and plain—that "action and re-action are equal." All that can be done, at the very best, is simply to get the full power of the steam. We will say no more about it, but advise an experiment. Whitelaw and Stirratt's Wheel is now of a good old age.

"J. M., of Miss."—We cannot see how a patent could be refused. It is a new article of manufacture.

"F. T., of N. Y."—We believe that your improvement on the revolving rake is patentable, and that it is good.

"J. A. C., of Pa."—We have seen a lock nearly resembling that one, before. You will find the information desired in a work by A. Vail, on the Telegraph. There is no late American work on Electro Magnetism. Silliman's Journal is \$5 per annum.—Write to New Haven, Conn.

"W. H. A. C., of Mass."—The strength of a boiler is only calculated by its weakest part. The only safety is to prevent the water from getting low and not let the pressure be too great.

"E. X. of Phila."—Yours next week.

"E. W., of N. H."—You could not understand the machinery without an engraving. It consists of a pantagraph and a frame that holds the wood to be cut, the said frame being moved backwards, forwards, up and down, by the pantagraph to the drill, to cut the letter of the pattern.

"J. C. F., of Conn."—You had better address a letter to Pease & Murphy, of this city, for information concerning the boiler, as we have none for sale. \$2 received.

"J. O. of Pa."—You had better inform us of the precise nature of your improvement, it would perhaps be best that you construct and forward a model for examination. We do not know of any work treating upon your business, neither are we able to advise you as to who would be the most responsible men to deal with here, such knowledge is not in our way. Your books were sent by express.

"O. P. S. of Ohio."—Your plan is novel without doubt, but its utility must be determined by actual experiments. Many things appear well in theory but fail in practice. You are aware of this probably.

"J. S., of N. Y."—We will publish the information, but the shaping and pressing cannot be taught by words, it must be learned by practice.

"E. B., of Conn."—your article on iron pipes came too late for attention this week, it will be examined in season for next week. Your criticism upon the Condenser is altogether short of the mark, as the improvement is now covered by Letters Patent granted a few weeks since, we are not insensible of the progress which has marked the past 15 years.

"H. H. M. of Ill."—We have examined into your matter, and think you can obtain a patent for the foundations. It would cost about \$50 to make the application. A model would be required, showing clearly the nature of the invention. It can be forwarded by express.

"R. K., of Geo."—Your order for books has been received, please inform us how we shall send them. The package is too large for the mail.

"C. D., of Ohio."—You could not obtain a patent on the mere form of the cylinder. \$2 received.

It would be quite troublesome for us to keep the run of the Isthmus steamers, as they are somewhat irregular in their time of starting.

J. C., of N. Y., E. F. W., of Ct., and F. G. U. F., of Mass.—Your business is being delayed from your non-attention to the execution of your papers. Please return your specifications immediately and thus facilitate your applications.

J. M. B., of N. Y.; A. & M. B., of Ill., and B. S., of Little Falls—

The specifications and drawings of your several inventions lie as a "dead letter" in this office for want of funds to pay the Patent fees. Will you attend to this matter, gentlemen? It is of more importance to you to have your applications on file at the Patent Office than to us; our advice is rendered from disinterested motives, as far as we are concerned, but for your own interest we advise you to remit the amount of your bills at once.

Money received on account of Patent Office business, since Feb. 13, 1850:—

L. G., of Conn., \$50; J. D. H., of N. Y., \$30; S. A. P., of Ct. \$20; L. A., of Ct., \$20; H. & R., of N. Y., \$30; T. F., of Ct., \$30; S. & H., of Mass., \$30; S. T. F., of N. Y., \$10, and G. S. T., of Mass., \$45.

Notice

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.

A LIST OF VALUABLE SCIENTIFIC AND MECHANICAL BOOKS,

FOR SALE AT THE SCIENTIFIC AMERICAN OFFICE.

- Ranlett's Architecture, 2 Vols., bound, \$12.00
Ewbank's Hydraulics and Mechanics, 2.50
Gilroy's Art of Weaving, 5.00
Gilroy's Art of Calico Printing, 5.00
"Scientific American," Vol. 4, bound, 2.75
Miner's Drawing Book, 3.00
American Steam Engine, Plate and Book of Description, 3.00
Scribner's Mechanics, Tuck, Gilt, 1.50
Treatise on Marine and Naval Architecture, published monthly, 12 Nos., each .75
Leonard's Mechanical Principia, 1.50
Mahon's Civil Engineering, 3.00
Morfit's Chemical Manipulations, 2.50
Instructions for Testing, Melting, and Assaying Gold, .25
Dugan'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 and 2 now ready, each .75
N. B. This work is supplied to subscribers only.

Patent Office.

123 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 dispatch.

MUNN & CO., 128 Fulton street, New York.

SASH AND BLIND MACHINE.—Patented by Jesse Leavens, of Springfield, Mass., is the best Sash and Blind Machine now in use. The Machine cost \$300 at the shop where they are made, near Springfield—extra charge for the right of using. The machine does all to a Window Sash and Blind except putting them together. Orders from abroad will be promptly attended to, by addressing JESSE LEAVENS, Palmer Depot, Mass. 22 20\*

THE GRAEFENBERG MANUAL OF HEALTH.

The Manual of Health just published by the Graefenberg Company, 7 parts, 300 pages, 12mo. This is the most useful and comprehensive, as well as the cheapest medical work extant, and should be in the hands of every family. Part 1st contains an account of the different medical theories of the present day, both good and bad, and their relation to the health of the community. Part 2d presents a new doctrine: The Americo-Graefenberg System, which need but be understood to command the confidence of the whole community. Part 3d describes the causes, symptoms and treatment of almost every form of disease, including those diseases peculiar to females and children, useful to all classes, even to physicians, as a hand-book. Part 4th contains important directions for preserving health, &c. Part 5th, Hints for Nurses, treatment of persons recovering from sickness, cookery for the sick, &c. Part 6th, Domestic remedies described, including mode of raising and preserving medicinal roots, &c., making lotions, poultices, colognes, cosmetics, &c. Part 7th contains a collection of useful tables, recipes, &c. For sale at the office of the Graefenberg Co., 50 Broadway, and by booksellers generally. Price 50 cents. Liberal discount to dealers.

NOTICE TO POSTMASTERS.—As it is the wish of the Company to distribute this work extensively, any Post Master forwarding \$2 for four copies shall be entitled to one copy gratis. 1f

VERY IMPORTANT.—To persons owning a mill privilege on a small stream of water where they can obtain 24 feet or more fall, in a short distance—about 35 feet is preferred—the subscriber will furnish a motive power and fixtures which is acknowledged by all who have seen the operation not to be excelled. A specimen can be seen in the South East part of the town of Canaan, 6 miles from Falls Village, and in the South part of the town of Washington, Berkshire Co., Mass., 8 miles East of Lenox Court House, and in the Shaker Village of New Lebanon, Columbia Co., N. Y. It is simple in its construction and very permanent and durable. It is peculiarly convenient for a common sawmill. I commonly use about 12 square inches of water for a sawmill and make it saw 100 feet of boards in ten minutes. For further particulars enquire at the office of the Litchfield Engineer, by letter to the subscriber directed to Falls Village, Litchfield County Conn. or to Daniel Coppley New Lebanon, Columbia Co., N. Y. I have also a very important improvement for the Saw frame and the pitman irons, which I warrant to excel all others.

The very best of reference and information will be given on request by letter or otherwise. All letters must be post paid. 4\*22 HENRY WIGHTMAN.

ANNUAL OF SCIENTIFIC DISCOVERY.

Year Book of Facts in Science and Art—Exhibiting the most important discoveries and improvements in Mechanics and Useful Arts, Natural Philosophy, Chemistry, Astronomy, Meteorology, Zoology, Botany, Mineralogy, Geology, Geography, Antiquities, &c. Together with a list of Recent Scientific Publications; a classified list of Patents; Obituaries of Eminent Scientific Men; an Index of important papers in Scientific Journals, Reports, &c. Edited by David A. Wells, of the Lawrence Scientific School, Cambridge, and George Bliss, Jr.

The Editors are so situated as to have access to all the scientific publications of America, Great Britain, France, and Germany; and have also received for the present volume, the approbation as well as the counsel and personal contributions of many of the ablest scientific men in this country, among whom are Profs. Agassiz, Horsford, and Wyman, of Harvard University.

As the work is not intended for scientific men exclusively, but to meet the wants of the general reader, it has been the aim of the editors that the articles be brief and intelligible to all.

The work will be published early in March, and will form a handsome duodecimo volume of about 350 pages, with a portrait of Prof. Agassiz. As the edition is limited, those desirous of possessing the first volume of the publication, must make an early application. On the receipt of one dollar, the publishers will forward a copy in paper covers, by mail, post paid.

Published by GOULD, KENDALL & LINCOLN, Boston. 23f3\*

NORTHERN PATENT AGENCY, No. 2

John street, New York. A. L. SMITH, Agent. Depot for New Inventions. The design of this Agency and its connections, is to establish points where the public may readily find all new and meritorious inventions.

Inventors lacking means or time to devote to their improvements, may here negotiate to have them manufactured, advertised and sold, and the Rights disposed of without furnishing capital themselves or risking a dollar in the effort.

Persons having articles of real merit, either patented or not, are invited to deposit them here for inspection, free of charge.

As this office has connection with similar ones in Philadelphia, New York, Baltimore, and New Orleans, all articles in charge will have a simultaneous issue and advertisement in those cities, and when arrangements are completed, throughout the United States. Communications must be post paid. 23 4\*

MANUFACTURERS' SUPPLY STORE.

The subscribers would call the attention of manufacturers generally, to his stock of articles for the use of factories, both cotton and woolen, consisting of every variety and kind used by them, which he can offer at as fair rates as any other establishment in this or any other market.

He has also constantly on hand a full assortment of Leather Belting, reeved, stretched, and cemented, of all sizes, made from the best material, and in the best manner, warranted equal, if not superior to any made in this country, and at prices which must be satisfactory to those wishing a superior article. He is also agent for the sale of Cotton and Woolen Machinery of the most improved kinds. Those favoring him with a call will be satisfied, both in regard to quality and price. P. A. LEONARD, 60 Beaver st. 23 3m

THE UNIVERSAL COUNTERFEIT AND ALTERED BANK NOTE DETECTOR AT SIGHT.

A small pamphlet of 20 pages, containing "A System of Infallible Detection applicable to all Modern plates of all Banks in the U. S. now in circulation, or hereafter issued; complete in Eight Rules, with Diagrams for Self-Instruction." Arranged and improved by H. C. Foote. The principle involved is, by fully explaining and illustrating the principle of the work of the several kinds of expensive and perfect engraving engines in general use by all bank note engraving Co.'s, enabling every person to detect at sight infallibly the attempted imitations by hand (often exceedingly close) by counterfeiters. Price \$2, including a magnifying glass, enclosed by mail. Address, remitting \$2, either to H. C. Foote, 763 Greenwich st, N. Y.; Messrs. Munn & Co., office of the "Scientific American;" or Messrs Stringer & Townsend, cor Broadway and Ann st. 23 1\*

MACHINE BELTING.—The mineral composition belting having been fairly tested, is offered with confidence as being as good as leather, and much better than any other kinds of belting—the price is less than that of any other kind—say for No. 3—4 inches wide, 14 cents per foot—6 inches, 20 cents—12 inches, 47 cents—20 inches, 80 cents—for No. 2 which is stouter—3 inches, 12 1-2 cents—7 inches, 29 cents—13 inches 67 cents—intermediate and larger sizes in proportion. Orders enclosing cash will be filled at once by S. C. HILLS, machinery agent, No. 43 Fulton Street, N. Y., who buys and sells on commission, all kinds of machinery, and has for sale Steam Engines, Boilers, Lathes, Planers, Drills, Pumps, Johnson's Single Mills, Sawmills, Morticing and Tennoning Machines, &c. &c.—Letters must be post-paid. 20 4t

SCRANTON & PARSHLY, New Haven, Conn. have just finished and will sell, to the first who will fork over the cash, 2 splendid side Lathes, 12 feet long, swings 25 in., weighs 2500 pounds, with back and screw gearing—centre follower, rest, drill chuck, and overhead reversing pulleys—all complete, price \$300. It is a rare chance for those in want of Lathes. Also, 7 of those 8 feet Lathes, a. \$125; each. The fact that 5 of them have been sold within the last 10 days, is all that need be said. Send the money and we will ship to your order. Other Lathes (large 2d lathe excepted) as heretofore advertised in this paper, for sale at low prices as usual. 22 tf

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 3m\*

SECOND HAND STEAM BOILER FOR SALE.

The subscribers have each two Cylinder Boilers, which they offer for sale—one pair is 22 feet long and 21 inches diameter; the other 24 feet long and 20 inches diameter. They are now in use and in perfect order—have not been burned or strained. The connecting pipes, try and stop cocks, &c., will be included. Ready for delivery next Spring.—Price \$250 per pair, in cash or approved notes. Letters of enquiry, (post paid) to either of the undersigned, will meet attention. EDWARD WILBUR, M. A. HARRINGTON.

Albion, Orleans Co., N. Y., Jan. 25, 1850. 21 4\*

EWBANK'S REPORT NOW PUBLISHED.

Report of the Commissioner of Patents, for the year 1849.—Part I.—Arts and Manufactures; embracing the Commissioner's view of the origin and progress of invention; The Motors—Chief Levers of Civilization. Proposed application of the Patent Fund: 1. Publication of Specifications; 2. Preparation of a General Analytical and Descriptive Index of Inventions; 3. Institution of National Prizes; and on the Propulsion of Steamers. With an introduction by Horace Greeley. Price 37 1-2 cents.

J. S. REDFIELD, Clinton Hall. For Sale at the Scientific American Office. 21 4\*

TO RAILROAD COMPANIES, ETC.

The undersigned has at last succeeded in constructing and securing by letters patent, a Spring Pad-lock which is secure, and cannot be knocked open with a stick, like other Spring locks, and therefore particularly useful for locking Cars, and Switches, etc. Made of different sizes to suit the purchaser. Companies that are in want of a good Pad-lock, can have open samples sent them that they may examine and judge for themselves, by sending their address to C. LEBRICH, 18 10\* 46 South 8th St., Philadelphia.

LAW'S NEW PLANING MACHINE.

For boards and planing, is now in operation in this city—planing, tonguing and grooving at the same time, with rapidity and beauty. It is believed to be superior to any other machine, as it will do the work of two or three rotary machines, and for all Southern, and the majority of Northern lumber, the execution is much better.

Machines, with rights for States, or Counties, can be had by applying to the subscriber, at 215 Pearl street, or at Collyer & Dugand's mill, foot of West Fourteenth street, where the machines are at work. 2 tf H. LAW.

BRITISH PATENTS.

Messrs. Robertson & Co., Patent Solicitors, (of which firm Mr. J. C. Robertson, the Editor of the Mechanics Magazine from its commencement in 1833, is principal partner), undertake THE PROCURATION OF PATENTS, for England, Scotland, Ireland, and all other European Countries, and the transaction, generally, of all business relating to patents. Instructions to Inventors can be had gratis, on application to Mr. THOMAS PROSSER, 25 Platt street, New York; as also the necessary forms of Petition and Declaration for British Patents.

PATENT OFFICE, 166 Fleet street, London. ml tf

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PATENTS procured in GREAT BRITAIN and her colonies, also France, Belgium, Holland, &c., &c., with certainty and dispatch 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, Office 5 Wall street, New York. 20tf

LAP WELDED WROUGHT IRON Tubes.

for Tubular Boilers, from 1 1-4 to 7 inches in diameter.—The only Tubes of the same quality and manufacture as those so extensively used in England, Scotland, France, and Germany, for Locomotive, Marine and other Steam Engine Boilers. THOMAS PROSSER & SON, Patentees, 25 Platt street, New York. ml

A DEE'S AMERICAN CAST STEEL Works.

(at the foot of 24th st., E. River, N. Y.) The above works are now in successful operation, and the proprietor would respectfully call the attention of machinists and all consumers of the article to an examination of his Steel, which he is warranted by the testimony of the principal machinists and edge tool makers of this city, in recommending as fully equal in every respect to any ever used in this country. A full assortment of the different sizes constantly on hand, which the public are respectfully invited to call and examine at the office of DANIEL ADEE, 51 6ms 107 Fulton street, New York.

BARLOW & PAYNE, Patent Agents and Consulting Engineers.

69 Chancery Lane London Patent Journal Office. ml2 tf