

TO CORRESPONDENTS.

W. B., of Pa.—You express yourself somewhat surprised to see Mr. Mills scheme published in the Scientific American. It may or may not be practicable—we did not decide upon this point—we presented the subject as one of novelty and interest, our readers are not obliged to believe in it, and there is no reason why we should not publish it as we do many other new and untried schemes. Let us have all sides fairly presented. We will decide upon what shall or shall not appear in this paper, and employ our own terms in dealing with all subjects.

V. L. M., of Pa.—On the New York and Philadelphia Railroad, the curtain which you describe is employed on the cars to prevent the rising of the dust from the track. It was suggested by an eminent mechanic living in this city—it works admirably, and we hope to see other roads adopting it.

H. J., of Ind.—We expect soon to publish engravings of Irving's Boiler, then you can readily understand the principal upon which it operates.

H. T. R., of N. H.—Explain what you mean by anchors for stopping railroad trains. The mere idea is not patentable. You must fix your ideas into a tangible contrivance.

A. C. C., of Tenn.—It is impossible for you to make the rails answer the purpose of a covered wire. You cannot properly isolate them. You may be sure of this.

W. T., of Me.—We see nothing new or patentable in the plough, but the fence appears to possess novel features.

R., of Nova Scotia.—Richard Kitson, of Lowell, Mass., can give such information as you desire in regard to oakum.

W. J. T., of N. Y.—We received your letter of June 6th, and replied to it very promptly, the reply missed you it appears. We advise you to send us a model of your measurer.

T. B., of Ind.—There is nothing patentable in your method of coupling, we have seen the same thing before used in carriages.

J. A. T., of Miss.—G. Page, of Baltimore, Md., or Geo. Vail & Co., Morristown, N. J., can furnish you with portable saw mills. The clock work for faning rooms was invented and patented by Com. Barron, 1830.

A. G., of Ill.—Yours came too late for this number. It was a most unjust act in your case.

E. J. H., of Pa.—Mr. R. is now at Niagara Falls, superintending the erection of a new suspension bridge; we have not seen his article but will look for it.

M. B., of N. H.—You have never read the history of the steam engine; read it.

L. L., of Ohio.—The papers of the scientific association will be published by the city authorities of Cleveland.

H. McN., of Conn.—There is no difference between your principle for heating apartments and heating them by steam pipes connected with a boiler.

J. R. M., of Pa.—We have no faith in the value of your device, as a caveat was filed some twelve months since for essentially the same thing.

T. F. W., of England.—We do not know of "self-acting gates at railroad crossings," like the one described in your letter; there are, however, good gates here for the same purpose, but railway companies do not feel willing to trust them.

Money received on account of Patent Office business for the week ending Saturday, Aug. 13:—

H. L. R., of Mich., \$60; J. L. L. M., of Pa., \$30; C. W. C., of Mo., \$30; G. B., of N. Y., \$100; E. M., of Pa., \$55; J. C., of N. Y., \$30; H. S., of Texas, \$50; W. E. B., of Ala., \$30; J. M., of Ohio, \$50; W. M. B., of Ohio, \$30; J. P. H., of Ohio, \$30.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday Aug. 13:—

S. P., of N. Y. (2 cases); H. A. C., of Mass.; W. M. & K., of Ill.; W. F. M., of N. Y.; A. E. B., of N. Y.

A Chapter of Suggestions, &c.

BACK NUMBERS AND VOLUMES.—In reply to many interrogatories as to what back numbers and volumes of the Scientific American can be furnished, we make the following statement:—Of Volumes 1, 2, 3 and 4—none. Of Vol. 5, all but six numbers, price, in sheets, \$1; bound, \$1.75. Of Volume 6, all; price in sheets, \$2; bound, \$2.75. Of Vol. 7 all; price in sheets, \$2; bound, \$2.75. Of Vol. 8, all the back numbers subsequent to No. 27, but none previous.

PATENT CLAIMS.—Persons desiring the claims 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 one dollar as fee for copying.

PATENTERS.—Remember we are always willing to execute and publish engravings of your inventions, provided they are on interesting subjects, and have never appeared in any other publication. No engravings are inserted in our columns that have appeared in any other journal in this country, and we must be permitted to have the engraving executed to suit our own columns in size and style. Barely the expense of the engraving is charged by us, and the wood-cuts may be claimed by the inventor, and subsequently used to advantage in other journals.

GIVE INTELLIGIBLE DIRECTIONS.—We often receive letters with money enclosed, requesting the paper sent for the amount of the enclosure, but no name

of State given, and often with the name of the post office also omitted. Persons should be careful to write their names plainly when they address publishers, and to name the post office at which they wish to receive their paper, and the State in which the post office is located.

ADVERTISEMENTS.

Foreign and American Patent Agency

IMPORTANT TO INVENTORS.—The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offer their services to inventors upon the most reasonable terms. All business entrusted to their charge is strictly confidential. Private consultations are held with inventors at their office from 9 A. M. until 4 P. M. Inventors, however, need not incur the expense of attending in person, as the preliminaries can all be arranged by letter. Models can be sent with safety by express or any other convenient medium. They should not be over 1 foot square in size, if possible. Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the special attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Patents. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

URE'S DICTIONARY—NEW EDITION.—A dictionary of arts, manufactures, and mines—Containing a Clear Exposition of their Principles and Practice, by Andrew Ure, M. D., Illustrated with sixteen hundred engravings on wood. Fourth Edition. Corrected and greatly enlarged. Many of the articles entirely re-written, and many new cuts added. 2 large vols., 8 vo. cloth. D. APPLETON & CO., will shortly issue a new edition of Ure's Dictionary, re-printed entire page for page with the new and greatly enlarged edition just published in England. Although this work is enlarged to two volumes, comprising in all 2116 pages, the price of the new edition will not be increased beyond the price of the former edition—Five Dollars. The trade and the public are invited to send their orders without delay to ensure prompt delivery of this very cheap and popular work. 200 Broadway, N. Y. 49 2

WANTED.—The address of a machinist who understands making machinery for manufacturing an improved gun lock. I shall want a machine for pressing the hammer, for pressing the dog, for forming the end of the main-spring, for punching the slot in the plate, for making and heading the different sized screws required; a drilling machine, and all the necessary machinery for grinding and polishing the different parts of the lock; engraving the plate, and, in fact, every thing necessary for the rapid and economical production of said locks, except the motive power. Address WM. HENRY, Jr., Wooster, Ohio. 49 3*

ATKINS' SELF-RAKING REAPER.—The unequalled success of this machine, both in grain and grass, and the information already received from agents, shows the demand another season will be more than I can supply. Every reaper heard from (about 30 in seven different States and Canada) gives good satisfaction with no drawbacks, though I have yet to hear from one who gives something better. I would like to realize something from the patent at once, and part of the States may be offered for sale. If a satisfactory price can be made, then arrangements may possibly be made with manufacturers to build and pay a patent fee. A machine can be seen at the Crystal Palace, and others will be at some of the State and County Fairs this Autumn. J. S. WRIGHT, "Prairie Farmer" Warehouse, Chicago, Ill., Aug. 6th, 1853. 49 5*

IRON FOUNDRY FOR SALE.—In full operation. Twelve moulders employed, and a good run of custom and job work, in a village near New York; always accessible. Address "J. P." box 1269, New York Post Office. 49 2*

UNITED STATES PATENT OFFICE, Washington, July 28, 1853. ON THE PETITION OF JOHN H. TIMS, of Newark, N. J., praying for the extension of a patent granted to him on the 31st day of October, 1839, for an improvement in bearings and oil boxes for railroad cars, &c., for seven years from the expiration of said patent, which takes place on the 31st day of October, 1853. It is ordered that the said petition be heard at the Patent Office on Monday, the 3rd 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. Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pennsylvania, Philadelphia, Pa.; Evening Post, New York; Boston Post, Boston, Mass.; and Inquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the third day of October 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. 49 3

AMERICAN PIG IRON.—Of the brands Wm. Penn, Swede, Amenia, Durham, Allentown, Sterling, Crane, and Mount Hope—also Scotch Pig Iron of favorite brands constantly on hand and for sale by G. O. ROBERTSON, 135 Water street, corner of Pine. 43 8*

FURNACE AND MACHINE SHOP FOR SALE.—A first class Furnace and Machine Shop, with or without stock on hand; has done a business of about \$15,000 per year for the last two years, which can be increased; situated in one of the best business towns in Central New York, on a railroad and canal. The owner having been in the business more than twenty years, wishes to withdraw from it. Terms liberal. For further particulars apply to JAMES FREELAND, Esq., of the firm of Freeland, Stuart & Co., 21 Park Row, New York City. 48 4

HELVETIA and LAFAYETTE GOLD MINING Company, located at Grass Valley, California, (organized July 7, 1852), is now in the full tide of successful operation; its veins are opened, being worked, and highly productive: its mill is of great power, complete in all respects, and now working with the most satisfactory results, and its prospects for future success, founded upon actual experience, are of an unusually flattering nature. There was taken out previous to Dec. 20, 1852, upwards of \$169,000, and the yield of the mine is steadily increasing with each successive report. Dividends payable quarterly in October, January, April, and July, at the office of the Company, in Grass Valley, and at the Agency Office in New York. A few shares and copies of the charter and by-laws, together with further particulars, may be obtained upon application to DANIEL ADEE, Agent, No. 107 Fulton st, New York. 48 3*

LAWRENCE SCIENTIFIC SCHOOL, Harvard University, Cambridge, Mass. The next term of this institution will open on the first day of Sept., 1853, and continue 20 weeks. Instruction by recitations, lectures and practical exercises, according to the nature of the study, will be given in Astronomy, by Messrs. Bond & Botany, by Prof. Gray; Chemistry, Analytical and Practical, by Prof. Horsford; Comparative Anatomy and Physiology, by Prof. Wyman; Engineering, by Prof. Eustis; Mathematics, by Prof. Pierce; Mineralogy, by Prof. Cooke; Physics, by Prof. Lovering; Zoology and Geology, by Prof. Agassiz. For further information concerning the School, application may be made to Prof. E. N. Horsford, Dean of the Faculty. Cambridge, Mass., July 15, 1853. 44 8*

DALMER'S PATENT LEG—Manufactured by Palmer & Co., at No. 5 Burt's Block, Springfield, Mass., for New England and New York State, and 378 Chesnut st, Philadelphia; in every instance of competition in the Fairs of the various Institutes of this country, has received the highest awards as "the best" in mechanism, usefulness, and economy. At the "World's Fair," London, 1851, in competition with thirty other varieties of artificial legs (by the best artists in London and Paris,) it received the Prize Medal as the best. 47 10*

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

FOUNDRY FOR SALE.—In the village of Westerly, R. I.; location unsurpassed. Sales of castings, for the past 6 months over \$14,000. Apply soon (post paid) to C. POTTER, Jr., Agent, Westerly, R. I. 47 4*

COTTON MACHINERY.—For sale, very low, viz. 1.30 inch batt card, 1 warper, 2 dresser fans, and 1 iron boiler. Apply to E. WHITNEY, New Haven, Ct. 45 6

NORRIS WORKS, Norristown, Pa. The subscribers build and send to any part of the United States, Pumping, Hoisting, Stamping, and Portable Engines, and Mining Machinery of every description. THOMAS, CORSON & WEST. 49 1y.

NORCROSS ROTARY PLANING MACHINE, —Decided by the Circuit Court not to infringe the Woodworth Machine—I now offer my Planing Machines at a low price; they are not surpassed by any machines as to amount of work, and superior quality of work. Address N. G. NORCROSS, 49 20*

ANDREWS & JESSUP.—No. 70, Pine street New York, Commission Merchants for the sale of all kinds of Cotton and Woolen Machinery, Machinists' Tools, Belling, &c. Importers and dealers in every variety of manufacturers' articles. 43tf

ENGINEERING.—The undersigned is prepared to furnish specifications, estimates, plans in general or detail of steamships, steamboats, propellers, high and low pressure engines, boilers, and machinery of every description. Broker in steam vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic Self-adjusting Conical Packing, Faber's Water Gauge, Sewall's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, &c. &c. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway. 29 26*

PATENT LAWS OF THE UNITED STATES, and information to inventors and patentees; for sale at the Scientific American office. Price 12 1-2 cents.

WHEELER, WILSON, & Co.—Watertown, Ct., proprietors and manufacturers of Allen B. Wilson's Patent Stitching Machine. Patented June 15, 1852, it can be seen at the Company's Office, 265 Broadway, New York. 30 20*

ATMOSPHERIC TELEGRAPH.—The English Patent (just issued) is now offered for sale at the Company's office, 24 Merchant's Exchange, Boston, Mass. I. S. RICHARDSON, Agent A. T. Company. 35tf

KRIFF'S (London Council Medal 1851) CELEBRATED CAST STEEL.—Of any dimensions, warranted superior to any other for Platers and other Rollers requiring hardening; also for hydraulic and other pistons, railway axles, and shafts for steam engines, &c. &c. This cast steel admits of welding without borax with the same facility as iron. THOS. PROSSER & SON, 28 Platt street, New York. 39tf

MCALLISTER & BROTHER.—Opticians and dealers in mathematical instruments, 43 Chesnut st, Philadelphia Pa. Mathematical instruments separate and in cases, Protractors, Spacing Dividers, Drawing Pens, Ivory Scales, Tape Measures, Salometers, Spy Glasses, Microscopes, Hydrometers, &c. &c. An illustrated and priced catalogue will be sent by mail free of charge. 39 6m*

A GOOD CHANCE FOR MANUFACTURING.—A Water Privilege of ten feet fall, on a never-failing stream, with four acres of choice land, in the town of Cornwall, Orange Co., N. Y., 5 miles from the North River, and three miles from the railroad depot, and on the line of survey of the Albany and Hoboken RR. For particulars inquire of John J. Vanduzer, 184 Canal st, N. Y., or John Orr, on the premises. 40 13*

NEW METHOD FOR MAKING WROUGHT-IRON direct from the Ore.—The proprietors of James Benton's Patent, who have purchased Alex. Dickerson's patent for the above purpose, are desirous of introducing the invention into general use, and invite parties who may wish to negotiate for rights for States and counties, or for turnaces, to make immediate application, and to examine the furnace which is in successful operation at the American Iron Company's Works, Newark, N. J. The invention is exciting considerable interest; gentlemen from all parts of the country, who are engaged in the manufacture of iron, have examined the furnace in its workings, and give it their decided commendation. A circular, giving more minute information will be sent to those desiring it. The rights for several States and counties have already been disposed of. Applications for rights in the State of New Jersey may address the Hon. J. M. Quinby, President of the American Iron Company. Inquiries or applications for other States may be made to A. H. BROWN, Newark, N. J., Office 107 Market st. 34tf

BEARDSLEE'S PATENT PLANING Tongue-Planing and Grooving Machines.—These celebrated machines have now been generally introduced in various portions of the United States. More than thirty are now in successful practical operation in the State of New York alone. As an illustration of the extent of work which they are capable of performing, with unrivalled perfection, it is sufficient to state that, within the last six months and a half, over five millions of feet of spruce flooring have been planed, tongued and grooved by one of these machines at Plattsburgh, N. Y., never running to exceed ten hours a day. The claim that the Beardslee machine was an infringement upon the Woodworth patent, has been finally abandoned; and after the proofs had been taken, the suit instituted by the owners of that patent was discontinued, and the whole controversy terminated on the first of November last. Applications for machines or rights may be made to the subscriber, GEO. W. BEARDSLEE, 57 State street, or No. 764 Broadway, Albany. 16tf

THE NEW HAVEN MANUFACTURING Company, New Haven, Conn., having purchased the entire right of E. Harrison's Flour and Grain Mill, for the United States and Territories, for the term of five years, are now prepared to furnish said mills at short notice. These mills are unequalled by any other mill in use, and will grind from 20 to 30 bushels per hour of fine meal, and will run 24 hours per day, without heating, as the mills are self-cooling. They weigh from 1400 to 1800 lbs., of the best French burr stone, 30 inches in diameter; snugly packed in a cast-iron frame, price of mill \$200, packing \$5. Terms cash. Further particulars can be had by addressing as above, post-paid, or to S. C. Hills agent N. H. M. Co., 12 Platt st, N. Y. 28tf

MACHINERY.—S. C. HILLS, No. 12 Platt-st. N. Y. dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills; Kase's, Von Schmidt's and other Pumps; Johnson's Whingle Machines; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Punches and Shears; Morticing and Tenoning machines; Belting; machinery oil, Beal's patent Cob and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 40tf

A. B. ELY, Counsellor at Law, 52 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 16tf

LEONARD'S MACHINERY DEPOT, 134 Pearl-st. and 69 Beaver, N. Y.—Leather, Mandrels, Bands and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. 40tf P. A. LEONARD

PAINTS, &c. &c.—American Atomic Drier Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., Painters and Chemist. 27tf

LOGAN VAIL & CO., No. 9 Gold st, New York —Agency for Geo. Vail & Co., Speedwell Iron Works, Norristown, N. J., furnish and keep on hand Portable Steam Engines of various sizes, Saw and Grist Mill Irons, Hotchkiss's Water Wheels, Iron Water Wheels of any size, Portable Saw Mills, complete; Bogardus's celebrated Planetary Horse Powers; heaving forgings and castings for steamboats and rolling mills, Ratchet Drills of superior quality for machinists, Saw Gummers, Hand drills, Tyre Benders, and shafting and machinery generally. 34 1y

E. A. BOURRY & H. E. ROEDER.—Consulting and Mechanical Engineers; Office No. 333 Broadway, New York City. 43 9*

C. B. HUTCHINSON'S PATENT STAVE Cutting Machines, the best in use, and applicable alike to thick or thin staves; also his Head Cutting and Turning, and Stave Jointing Machines. For machines or territorial rights, apply to C. B. HUTCHINSON & CO., Syracuse, N. Y. 36tf

J. D. WHITE'S PATENT CAR AXLE LATHES —also Patent Engine Screw Lathes, for boring and turning tapers, cutting screws, &c. We manufacture and keep constantly on hand the above lathes; also double slide Chuck and common Hand Lathes, Iron Planers, E. Ingersoll's Patent Universal Ratchet Drill, &c. Weight of Axle Lathes, 5,000 lbs.; price \$600; Engine Screw Lathes, 1,000 to 7,000 lbs.; price \$225 to \$675. BROWN & WHITE, Windsor Locks, Conn. 27tf

CIRCULAR SAW MILLS.—The undersigned are manufacturing, and keep constantly on hand, "Child's Premium Double and Single Circular Sawing Machines." The best machines in use for sawing lumber from logs of all sizes, and warranted capable of cutting more lumber in a given time than any other mill. Shafting, gearing, and all other mill work, made to order, with dispatch and in a workmanlike manner. H. WELLS & Co Florence, Hampshire Co., Mass. 44 6*

THE NEW HAVEN MANUFACTURING CO. No. 2 Howard st, New Haven, Ct., are now finishing 6 large Lathes, for turning driving wheels, and all kinds of large work; these lathes weigh 9 tons, and swing 7 1-2 feet, shears about 16 feet long. Cutts and further particulars can be had by addressing as above, post-paid, or to S. C. Hills, agent N. H. M. Co., 12 Platt st, N. Y. 28tf

LEE & LEAVITT.—Manufacturers of every description of Cast Steel Saws, No. 53 Water street, between Walnut and Vine, Cincinnati, O. 27 6m*