

TO CORRESPONDENTS.

E. S. P., of N. C.—Your letter, covering sample of ore, has been received, but we have not had an opportunity of thoroughly investigating the matter yet. We think the sample sent is composed principally of pyrites, but it may contain other more valuable miners, which we have not yet discovered.

W. L. B., of Boston—Fifty-two numbers of the Scientific American complete a volume. We can furnish the back numbers of the present volume. You can obtain the numbers at No. 13 Court st.

A. S., of Hartford—You will find a receipt for marking varnish on page 107, Vol. 6, Sci. Am.

A. H., of Eng.—We do not think it advisable for you to make an application here on the boiler. The arrangement is slightly different from Montgomery's, and he could prevent you from using yours in connection with his.

E. E., of N. Y.—The Patent Office does not make original drawings, or attend to answering any questions concerning the novelty of inventions. Many inventors write to the office under an erroneous impression in this respect, and are consequently disappointed in receiving no reply. Correspondence with the Examiners or other subordinates is strictly prohibited.

R. H. G., of Mass.—If a patent has expired before application for extension is made, or if such application be made short of the sixty day's notice now required by law, the Office can afford the inventor no relief. If he desires a renewal of his patent, his remedy is to be found only in a special act of Congress.

G. F. P., of La.—As long ago as 1846 (Vol. 2, page 49, Sci. Am.) we published diagrams of an apparatus for heating and also for ventilating railroad cars, which we should judge from your diagram embraced the whole features of your invention.

T. D., of Ala.—The model of the agitator is received, and will be reported on immediately. You will hear from us by mail.

R. E., of Va.—We are fully aware that the patent in question is not in possession of the original patentee. It was lost to him by prior proof of another inventor, and we have no doubt justice was done.

E. C. L. of Me.—We have high authority for the remarks addressed to you a month since. In a late publication of Liebig he assumes the same position.

J. H. B., of Mich.—We duly received your letter of June 25th. Your subscription we have marked up to No. 26, next volume.

J. H. M., of New Orleans.—We send your package of back numbers per steamer Benjamin Franklin. Your subscription expires now with No. 26, next volume.

A. N. M., of Savannah.—We are unable to state how much a working drawing will cost. Wm. Burden, of Brooklyn, can give you all the required information.

G. F. D., of N. Y.—You certainly had better provide yourself with Borden's Patent Meat Biscuit. You will have 400 per cent. more nutriment in the same bulk by purchasing the article above recommended, than by supplying yourself with any kind of preserved meats that we know of.

R. S. M., of Mass.—We have not been able to discover the advantages of your machine over Mr. —'s, but there is no question but what you can obtain a patent notwithstanding.

F. B., of C. W.—We think there is, none of the articles referred to arrived in this country yet, but if you wish us to order some we will instruct our Paris agents to obtain them by your depositing with us the cost, which we believe is about 200f. (\$40.)

Money received on account of Patent Office business or the week ending Saturday, July 3:

R. L. & H. W. O., of Ct., \$30; D. G., of Vt., \$25; D. P. G., of Ind., \$20; S. G., of N. Y., \$20; T. H. D., of N. H., \$70; H. C., of Ky., \$40; A. J., of Me., \$25.

An Important Paragraph.

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

The Post Office Laws do not allow publishers to enclose receipts; when the paper comes regular subscribers may consider their money as received.

Subscribers ordering books or pamphlets are particularly requested to remit sufficient to pay postage.

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 and 3—none.
- Of Volume 4, about 20 Nos.; price 50 cts.
- Of Volume 5, all but 4 numbers, price, in sheets, \$1.
- Of Volume 6, all; price in sheets, \$2; bound, \$2.75
- Of Vol. 7, all back numbers at subscription price.

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.

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 regulation of the Patent Office. Price 121-2 cts. per copy.

ADVERTISEMENTS.

Terms of Advertising.

4 lines, for each insertion, -	50 cts.
8 " " " " -	\$1.00
12 " " " " -	\$1.50
16 " " " " -	\$2.00

Advertisements exceeding 16 lines cannot be admitted; neither can engravings be inserted in the advertising columns at any price.

All advertisements must be paid for before inserting.

American and Foreign Patent Agency

IMPORTANT TO INVENTORS.—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 be not 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 especial 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, 123 Fulton street, New York.

MACHINERY IN THE GREAT EXHIBITION

—22 Copperplate Engravings of the following subjects, and numerous Woodcuts, are given in the Volume of the ARTIZAN for 1851, price \$3.50: Retort Settings (Croll's Patent) and Wet Lime Purifiers, for the Great Central Gas Works; Comparison of recent Improvement in Permanent Ways; Ryder's Forging Machine; Brown's Blooming Machine; Curvilinear Planing and Shaping Machine; Ericsson's Caloric Engine; Hydraulic Mine Lifting Machinery; Pumping Engine, by M. Mazeline; Samuel's Locomotive Feed Engine; Galloway's Patent Smoke-Consuming Water-Tube Boilers and Engines; Ship-ton's Pendulous Engine; Details of the Emperor of Russia's Yacht "Peterhoff," by Messrs. Rennie, and of the Prussian War Steamer "Nix," armed on Mr. Scott Russell's Patent System; Carlson's Direct Acting Engines for the Screw; Long's Steering Apparatus; Details of a Swedish Ornamental Villa; Wiggington's Model Dwellings, ventilated on the best principle; large sheet of Designs for Architectural Ornaments in Fire-clay; Result of Experiments of the Commission on the Strength of Iron.

The four preceding volumes may also be had, containing an immense amount of practical information on Civil and Mechanical Engineering, Steam Navigation, Shipbuilding, &c. The Artizan may be had of any bookseller in the United States, by order, or any person forwarding an order for 16 shillings sterling (\$3.90) on any London house, will have it sent for a year by post. Address W. K. WHITEHEAD, Consulting Engineer, office of the Artizan Journal, 69 Cornhill, London. 37 4eow

TO STEAM ENGINE BUILDERS, OWNERS,

and Engineers.—The subscriber having taken the agency of Aschroft's Pressure Gauges, would recommend their adoption to those interested. They have but lately been introduced into this country, but have been applied to many of our first-class river and ocean steamers, and on several rail roads, on all of which from their simplicity, accuracy, and non-liability to derangement, they have given the utmost satisfaction. CHAS. H. COPELAND, Consulting Engineer, 64 Broadway, N. Y. 43 5*

REJECTION OF LANGDON'S APPLICATION

noticed in the last Scientific American—nearly 40 pages. I will send one copy, post-paid, for eight three cent stamps, or 50 copies by Express for \$5. The information contained is useful and important to patentees. Address GEO. W. BEARDSLEE, Albany, N. Y. 43 2

SCIENTIFIC AMERICAN—One set of Vols.

2, 3, 4, and 5, bound, can be had on application at this office. It is a rare chance to obtain the set.

A FORTUNE may be made by purchasing a

right in Howard's Patent Flange, the safest and most convenient article for attaching traces, check-lines, or bridle reins, breast straps, back bands, and many other things, to their proper places (without buckles, hooks, or snaps) ever invented, and which will prevent them from becoming untimely detached. Its safety, durability, cheapness, and simplicity will give it the preference over all other modes of attachment to which it can be applied; call and examine it. It needs but to be seen to be approved. Rights for sale, and agents wanted, by C. HOWARD, No. 31 Bowery, N. Y., at Whiton's silver Plater. 1*

EVERETT'S PATENT CARRIAGE COUPLING

for turning in a small space with large fore-wheels (see Sci. Am., No. 36, Vol. 6). For rights or agencies to sell the same in the New England and North Western States, also California and Oregon, address EDWARD EVERETT, Quincy, Illinois; or in the Southern and South-western States, also Pennsylvania, Ohio, Kentucky, and Tennessee, address CHARLES EVERETT, Washington, D. C. 43 3eow*

FOR SALE—One Power Mortising Machine; one

Toggle Joint Envelope Press, and one Press for cutting, stamping, and piercing, with feed motion attached, all new and in good order, by CARPENTER & PLASS, corner of Hester and Elizabeth sts., N. Y. 42 2*

THEODOLITES, RAILROAD TRANSITS,

AND LEVELS.—Drawing Instruments, Microscopes, Telescopes, Electro-Magnetic Machines, Galvanic Batteries, Daguerreotype apparatus, Barometers, Thermometers, &c. Manufactured and for sale wholesale and retail by JOHN ROACH, Optician, 79 Nassau st., N. Y. 42 5*

WANTED TO PURCHASE—One Wool Card

(single cylinder will do) for making rolls for hand spinning. Any person having one to dispose of may state the width, number of workers and strippers, condition of clothing, price, etc.; a second-hand one would do if not much worn. Address, post-paid, JOB RUSSELL, Lewisville, Chester Dis., S. C. 41 3*

SHERRY & BYRAM'S AMERICAN CLOCKS, FOR CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c. REGULATORS FOR JEWELLERS, and other styles, designed for Banks, Offices, etc., also Astronomical Clocks. The undersigned have introduced such improvements in the construction of their clocks, as to be enabled to warrant them the most durable and accurate (highest grade to vary less than two minutes in twelve months), of any others now in use. Glass dials for illumination furnished at short notice. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, Long Island, N. Y.

"At the Oakland Works of Sherry & Byram there are made some of the finest clocks in the world."—[Scientific American.] "Mr. Byram is a rare mechanical genius." [Jour. of Commerce. 41 7eow*

THREE STEAM BOILERS FOR SALE

—One of Ericsson's improved tubular 20 horse-power for \$650; one upright tubular six horse-power for \$275; one second-hand tubular boiler, four horse-power for \$150. LAPHAM & WELCHMAN, 42 4*

AARON KILBORN, 4 Howard street, New

Haven, Ct., manufactures Steam Engines, Shafting, Presses, Fan Blowers, Lathes, Planers, Artesian Wells, Chain and Force Pumps, Pipe, Heating Apparatus for Houses, etc. 42 10*

TO BOOT AND SHOE MANUFACTURERS

—The undersigned has invented a new and, he believes, a very useful improvement in revolving heels for boots and shoes, which he is desirous of selling out, entire, to manufacturers or others interested. Parties wishing to learn the particulars can address MORLEY & SONS, No. 20 Union st., Brooklyn, L. I. 1*

TO INVENTORS—The subscribers will enter into

arrangements on the most reasonable terms, for furnishing Drawings, Patterns, and Models, believing that they have one of the most thorough and scientific men, in that line of business, to be found in New York. Their object is merely to fill up time, they not having sufficient work of their own to keep him in steady employment, and do not like to have him leave for fear they could not obtain his services when required. Apply at Dunlop's Manufacturing Emporium, No. 36 Gold street. 41 13*

EXCELLENT SAW GUMMERS FOR SALE

—Very low, by G. A. KIRTLAND, 205 South street, N. Y. 41 6*

DRAUGHT BOARDS, PATENT—23 by 29

inches. Ready sales their best recommendation. Cheapest instruments in use. Complete for \$10. Sent by Express. Direct (post-paid) to H. W. CHAMBERLIN, Pittsfield, Mass. 40 ft

MARYLAND INSTITUTE FAIR—The Board

of Managers of this Institute will hold the Fifth Annual Exhibition in the Grand Saloon of the Institute Building, in the city of Baltimore, commencing on the 4th day of October next. The great facility thus afforded for a splendid display of American Manufactures, they hope, will be a sufficient inducement for the Manufacturers, Mechanics, Artists, Inventors, and others throughout the United States, to contribute such specimens of their industry, skill, and ingenuity, as shall be alike honorable and creditable to the mechanical genius and refined taste of the country. The Hall will be open for the reception of goods on Monday the 27th Sept. next, from which time to Thursday night, Sept. 30, articles intended for competition and premium must be deposited. The balance of the week will be devoted to the reception of articles intended for exhibition only, free of charge. After which time depositors will be subject to a charge of 50 cents to \$1. On Monday, Oct. 4, at 7 o'clock, P. M., the Exhibition will be open for the reception of visitors. Circulars containing the regulations and arrangements established by the Standing Committee on Exhibitions, can be had by addressing (post-paid) JOHN S. SELBY, Actuary of the Maryland Institute, by whom any information required will be promptly given. 39 7

PATENT ALARM WHISTLE.—Indicators for

speaking pipes, for the use of hotels, steamships, factories, store-houses, private dwellings, etc. etc. This instrument is intended to supersede the use of the bell, being more simple in its arrangement, more effective in its operation, and much less liable to get out of order, being directly connected with the speaking pipe, it requires no lengthy wires in its use, which are continually getting out of order or breaking. There have been several hundreds of them fitted up in this city and vicinity with the greatest success. They can be attached to pipes, which are already fitted up without damage to buildings, and for much less than the cost of a bell, and warranted to operate. The public are invited to call and examine them at the factory of the patentees. WOOLCOCKS & OSTRANDER, 57 Ann street, New York. State and County Rights for sale. 40 13

IRON FOUNDERS MATERIALS—viz.: good

American Pig Iron—grey, mottled and white; No. 1 Scotch Pig Iron, of favorite brands. Pulverized Sea Coal, Anthracite Charcoal, Soapstone, and Black Lead Facings. English and Scotch patent Fire Bricks—plain, arch, and circular, for cupolas. Fire Sand and Fire Clay. Iron and brass moulding sand; Core sand and flour; always on hand and for sale by G. O. ROBERTSON, 135 Water street (corner of Pine), N. Y. 40 6*

TO CARPENTERS AND DEALERS IN PA-

TENT RIGHTS—The whole right and title to the Patent Blind and Shutter Fastener, which was illustrated in No. 37 Vol. 7 of the Scientific American, will be sold cheap to a cash customer, or the owner of the patent will sell single States (not in smaller quantities) if desired. The invention is a good one; the claims are broad, and it is not an infringement of any existing patent, as decided by parties who have investigated the matter thoroughly. For particulars concerning the purchase of rights, etc., address "DESAIX," box 773, P. O., New York City. 41 3*

LATHES FOR BROOM HANDLES, Etc.—We

continue to sell Alcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pillars, Rods and Rounds; Hoe Handles, Fork Handles and Broom Handles.

This Lathe is capable of turning over 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. At this Office.

BEARDSLEE'S PATENT PLANING MACHINE, for Planing, Tonguing and Grooving Boards and Plank.—This recently patented machine is now in successful operation at the Machine shop and Foundry of Messrs. F. & T. Townsend, Albany N. Y.; where it can be seen. It produces work superior to any mode of planing before known. The number of plank or boards fed into it is the only limit to the amount it will plane. For rights to this machine apply to the patentee at the abovenamed foundry—or at his residence No. 764 Broadway; Albany. GEO. W. BEARDSLEE. 23tf

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 Shingle Machines; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Punches and Shears; Mortising and Tennoning machines; Belting; machinery oil, Beal's patent Cob and Corn mills; Burrmill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 26 tf

WOOD'S IMPROVED SHINGLE MACHINE

—Patented January 8th 1850, is without doubt the most valuable improvement ever made in this branch of labor-saving machinery. It has been thoroughly tested upon all kinds of timber and so great was the favor with which this machine was held at the last Fair of the American Institute that an unbought premium was awarded to it in preference to any other on exhibition. Persons wishing for rights can address (post-paid) JAMES D. JOHNSON, Bridgeport, Ct., or WM. WOOD, Westport, Ct., All letters will be promptly attended to. 22tf

PORTER'S PATENT GRADUATING VALVE

FORGE TUYERE—Illustrated in this paper Sept. 6, 1851, gives a sure, quick, and clean heat, and is warranted to save full 25 cts. per day to each fire. Two sizes manufactured. Price \$6 to \$8. For sale, wholesale and retail, at No. 9 Gold st. W. J. & J. H. BURNETT. 42 2*

PAINTS, &c. &c.—American Atomic Drier

Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Store Polish. QUARTERMAN & SON, 114 John st., Painters and Chemists. 23tf

CHARLES F. MANN, FULTON IRON WORKS,

Below the Troy and Greenbush Railroad Depot, Troy, N. Y.—The subscriber builds Steam Engines and Boilers of various patterns and sizes, from three horse power upward; also, his Portable Steam Engine and Boiler combined, occupying little space, economical in fuel, safe, and easily managed; Double Action Lift and Force Pumps; Fixtures and Apparatus for Steam or Water; Tools for Machine Shops; Shafting and Pulleys for Factories. Brass Castings and Machinery made to order at short notice. Steam engines furnished cheaper than can be had elsewhere, of the same quality. 30tf

JOHN W. GRIFFITHS—Ship Builder and Marine

Architect, 658 Fourth st., N. Y., furnishes models and draughts of all description of vessels, with the computation of stability, capacity, displacement, and necessary amount of impulsion. Propelling power located and proportionally adapted to the form of the vessel, whether sailing or steaming. Mr. G. also superintends the construction of vessels, and may be consulted upon all subjects pertaining to the various departments of the science or practice of ship building. Draughts forwarded by letter to all parts of the world, and to any desired scale; all letters must be post-paid. 27 18*

1852 TO 1856.—WOODWORTH'S PA-

tent Planing, Tonguing, Grooving, Rabeting, and Moulding Machines.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machines. Price from \$150 to \$760. For rights in the unoccupied towns and counties of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 26tf

LEONARD'S MACHINERY DEPOT, 109

Pearl-st. and 60 Beaver, N. Y.—Leather Banding Manufactory, N. Y.—Machinists' Tools, a large assortment from the "Lowell Machine Shop," and other celebrated makers. Also a general supply of mechanics' and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. 27tf P. A. LEONARD.

PATENT CAR AXLE LATHE—I am now ma-

nufacturing, and have for sale, the above lathes; weight, 5,500 lbs., price \$600. I have also for sale my patent engine screw lathe, for turning and chucking tapers, cutting screws and all kinds of common job work, weight 1500 lbs., price \$225. The above lathe warranted to give good satisfaction. J. D. WHITE, Hartford, Ct. 39 26*

MANUFACTURE OF PATENT WIRE Ropes

and Cables—for inclined planes, suspension bridges, standing rigging, mines, cranes, derrick, tilters &c.; by JOHN A. ROEBLING; Civil Engineer—Trenton N. J. 47 1y*

A. B. ELY, Counsellor at Law, 46 Washington

st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 13tf

TRACY & FALES, RAILROAD CAR MANU-

FACTORY—Grove Works, Hartford, Conn. Passenger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 26tf

LOGAN VAIL & CO., No. 9 Gold street, New

York, agents for George Vail & Co., Speedwell Iron Works, have constantly on hand Saw Mill and Grist Mill Irons, Press Screws, Bogardus' Horse-Powers, and will take orders of Machinery of any kind, of iron and brass; Portable Saw-mills and Steam Engines, Saw Gummings of approved and cheap kind, &c. Gearing, Shafting, large and small, cast or of wrought iron. 11 1y

NEW HAVEN MANUFACTURING COM-

pany, Tool Builders, New Haven, Conn., (successors to Scranton & Parshley) have now on hand \$25,000 worth of Machinist's Tools, consisting of power planers, to plane from 5 to 12 feet; slide lathes from 6 to 18 feet long; 3 size hand lathes, with or without shears; counter shafts, to fit all sizes and kinds of universal chuck gear cutting engines; drill presses, index plates, bolt cutters, and 3 size slide rests. The Co. are also manufacturing steam engines. All of the above tools are of the best quality, and are for sale at 25 per cent. less than any other tools in the market. Cuts and list of prices can be had by addressing as above, post-paid. Warehouse No. 12 Platt st., New York, S. C. HILLS, Agent N. H. Man'g Co. 26tf