

TO CORRESPONDENTS.

E. V. of N. H.—Your plan of the steam engine is not quite new to us, excepting the mode of working the valves; in Vol. 4, Sci. Am., we published an illustration of a cylinder moving on a fixed piston: your plan is not so good, in our opinion, as many of the engines in common use; you can save one piston rod at least, by using a vibrating engine.

Rev. S. T. of —On page 28, Vol. 4, of our paper, there is a process described, to color and render stone impervious to moisture; if specially desired, we could give you a good deal of information about artificial stone.

G. W. C. of Me.—We are not able to see into your plan of propelling the vessel by the water in which she sails. The description, we understand, but how the wheel can operate we cannot see.

J. B. of S. C.—You are correct about the action of the furnace and the plan to consume the smoke;—boilers have been and are now in operation, with perforations through the first bridge wall, to admit air to mingle with the smoke (carbonic oxide) when the said gas ignites, and the result is its combustion.—Many years ago we saw a furnace erected upon the identical principle of yours, and it was most economical in the consumption of fuel; if you erect it you will find it to work well, but you must use a slide for your air-pipe, as it is best to shut it up sometimes, and the air has to be admitted in quantity according to the state of the fire—most when new mended.

B. J. of Vt.—Your plan for propelling boats is quite old; we can show you drawings of a like plan published some years ago.

J. W. P. of Ohio.—There is a very excellent elementary work on Electricity, by Harris, price two shillings and six-pence; another by Bain, price \$1. There is a fine article on the whole subject in the American Encyclopedia of Chemistry, the price of which is \$5.

G. B. W. of Ill.—Yes!

W. H. G. of Ky.—We know of no work to recommend you upon that subject.

J. H. of O.—The work of which you inquire the price is \$5, but it could not be sent by mail; it weighs over 32 oz.

A. P. C. of Ky.—We have examined the plan of your press, and do not see anything to prevent its operating well; it is simply a compound screw-press, and not patented, according to our judgment.

J. M. G. of Ohio.—A. K. Carter, of Newark, N. J., is the assignee of Blanchard's Patent Lathe, for turning spokes and other irregular forms; we do not know the price. Express our thanks to Mr. Jones for his fine list of subscribers.

O. C. of Ohio.—Your contrivance appears to be new and good for the purpose.

G. N. K. of Ala.—We have forwarded your letter to Messrs. Sherry & Byram, clock makers, at Sag Harbor, whose advertisement appears in our columns.

W. J. F. S. of Ill.—An iron handle for a woodman's axe would not answer a very good purpose, especially on a frosty day. Try it some cold morning and see how you like it. The mode of connecting appears to be novel. We do not know the price charged for magnets; Messrs. E. Pike & Sons, 166 Broadway, have them for sale.

M. K. of Mass.—The numbers of Vol. 6, which you order, we can send you for 50 cents. The numbers of Vol. 4 we have not got.

D. W. E. of N. Y.—The patent which you have we consider will cover its application to locomotives as well as trucks.

F. H. of Md.—Dr. Wollaston not only decomposed water by electricity, but produced, by the same agent, a variety of other effects, which had previously been considered as exclusively produced by galvanism.

G. W. W. of Mass.—The 18 last numbers of Vol. 6 we can furnish you for 72 cts., if you desire them.

G. W. S. of N. J.—Your plan of rail will no doubt diminish the price, and as we do not know of any other like it, we think a patent could be obtained. The suggestion is worthy of attention.

J. M. of Mass.—The apparatus you speak of might be useful to thermometer and scale makers; if new you would be able to obtain a patent for it, upon this latter point we cannot decide without a drawing and description.

Money received on account of Patent Office business for the week ending November 15.

G. J. W. of Me., \$30; W. & S. of N. Y., \$20; B. & W. of Ct., \$25; C. B. M. of N. Y., \$50; G. G. of N. Y., \$20; D. W. of N. Y., \$10; F. P. of N. Y., \$30; J. D. of Pa., \$15.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Nov. 15:—

B. & W. of Ct.; D. W. of N. Y.; W. W. V. of Md.; J. W. M. of N. H.; J. Van H. of Ill.

Sending Receipts.—Postage on Books.

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.

An Important Paragraph.

To preclude subscribers the necessity of writing for back numbers of the Scientific American, we shall forward all the back numbers of Volume 7, dating their subscriptions from the commencement unless they instruct to the contrary. We shall send the back numbers issued on this Volume until No. 13, after that time the names will be entered from the date of the reception of orders, unless the writer expresses a wish to receive the back numbers.

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.

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; price, in sheets, \$2; bound, \$2.75. Of Volume 6, all price in sheets, \$2; bound, \$2.75.

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 at any price.

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 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.

THE SUBSCRIBER has on hand several improved Steam Engines of superior quality, and made of the best materials, particularly adapted to manufacturing, saw mills, flour mills, &c. He will also make to order, at the shortest notice, engines and boilers of from 2 to 50 horse power, with all their appendages; prices reduced. Also, shafting, mill gearing, saw mills, presses, drills, &c. He has also facilities for furnishing lathes, planes, and scroll chucks, of the most approved styles and patterns, at short notice. Chain pumps on hand, wholesale and retail, at No. 4 Howard st., New York. AARON KILBORN. 10 7\*

TWO STEAM ENGINES FOR SALE.—Of 3 and 6 horse-power (new); price \$150 and \$200; also, now finishing, 1 1/2-2 doz., more of those superior 8 feet Slide and Screw Cutting Lathes; price, including counter shaft, hangers, pulleys, and full set of gearing, \$250. Inquire of CARPENTER & PLASS, corner of Hester and Elizabeth streets, N. Y. 10 2\*

THE SATURDAY EVENING POST, THE Leading Literary Weekly in the Union.—The proprietors think it unnecessary to dwell upon the distinguishing features of the "Post," whose brilliant success, during an existence of thirty years, is a sure guarantee of the future. For the coming year we have made arrangements for the following novelties:—"Eoline, or Magnolia Vale," by Mrs. Caroline Lee Hentz, author of "Linda, Rena, &c.;" "Trial and Triumph," by T. S. Arthur, author of "The Iron Hand, Temperance Tales, &c. &c.;" "The Post" will also contain, weekly, choice selections, news, bank note list, state of markets, &c. Terms—Single copy, \$2 per year, or three years for \$5, in advance. Clubs (to be sent to one P. O.), 4 copies, \$5; 5 copies, \$10; 14 copies, \$15; 21 copies, \$20, in advance. Address always post-paid. DEACON & PETERSON, 66 south 3rd st., Philadelphia. A copy of the "Post" will be sent as a specimen to any one. 10 5

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 Chemists. 9tf

JOHNSON'S UNEQUALLED SAW GUMMER for gumming out the teeth of saws, an article indispensable for saw mill owners. This article has been thoroughly tried and well approved, for sale by G. A. KIRTLAND, 205 South street, New York. 9 9\*

MCCORMICK'S PATENT REAPERS AND MOWERS.—1700 of these machines, for which the great Medal of the World's Fair was awarded, are being manufactured at Chicago, Ill, with the intention of supplying the South-eastern States for the next harvest. The gold medal of the Chicago Institute was recently awarded for this Reaper and Mower, tested against two other mowers, in cutting prairie grass; and the first premium of the State Agricultural Societies of Wisconsin, Michigan and Pennsylvania, were also awarded at their late Fairs. Price \$120 at Chicago, and \$122 delivered at Philadelphia; terms otherwise accommodating. 5tf

1851 TO 1856.—WOODWORTH'S Patent Planing Machines.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Machine. Price of the machine 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. 9 10\*

BALLOONS.—I am prepared to manufacture Hydrogen Balloons of from 1 pound to 50,000 lbs. ascending power to order. Balloons capable of carrying up one or two persons always on hand. The Balloons will be of the most perfect construction, so that any person can, with certainty and safety ascend with them. Instructions to insure success given to purchasers gratis. JOHN WISE, Lancaster, Pa. 9 10\*

BROOM MACHINERY.—The most improved and durable machinery for the manufacture of Brooms, for sale by JACOB GRAY, Scotia, Schenectady Co., N. Y. Address post-paid. 4 8\*

TRAUTWINE ON RAILROAD CURVES.—By John C. Trautwine, Civil Engineer, Philadelphia; just published and for sale by WM HAMILTON, Actuary of the Franklin Institute. Price \$1. "This is a really good work, and we heartily recommend it to our civil engineers."—[Scientific Am.] "We have carefully examined this work, and regard it as the best that has yet appeared on the subject." &c.—[Am. Railroad Jour.] 8 10\*

POST'S PATENT SLIDING DOOR FRONTS.—For Stores and Public Buildings; a new, cheap, and simple fixture for securing store fronts, which renders them fire and burglar proof, has been invented and patented by the subscriber, who is now prepared to sell rights. Messrs. Quarterman & Son, 114 John st., N. Y., are general agents. Address (post paid) Wm. POST, Architect, Flushing, L. I. 6 3m

TILTON'S Patent Violin.—The undersigned having patented his Violin Improvement, is prepared to exhibit it to the public. Being now in New York, he may be found at No. 18 Park Place (Mr. J. Wiley's), where he will be pleased to see such gentlemen as take an interest in his invention. All communications addressed "Wm. B. Tilton & Co.," as above, or at Carrolton, Pickens Co., Ala. 3 12\*

LEWIS & BLODGETT'S PATENT ROTARY SEWING MACHINE.—The undersigned, having purchased the right to use, sell, and manufacture these machines for the States of Alabama and Mississippi, and their other business engagements preventing them from giving it their personal attention, they are disposed to sell out their right to the above-mentioned States, or counties in them, if preferred, upon favorable terms. To an energetic and industrious man we will sell upon such terms as will insure a large and handsome profit. Apply to Mr. W. SCRUGGS, of the firm of Messrs. Scruggs, Drake & Co., Charleston, S. C., or to WM. MAILLER, Decatur, Ala. 4 5\*

PROFESSOR ALEX. C. BARRY'S TRICOPHEROUS OR MEDICATED COMPOUND.—Professor Barry does not hesitate to put his Tricopherous, for the two grand requisites of efficacy and cheapness, against any preparation for cleansing, renewing, preserving, and strengthening the Hair, that has ever been advertised or offered for sale. He challenges the associated skill and science of the medical world to produce, at any price, an embrocation that will reduce external irritation, cure ordinary cutaneous diseases and severe cuts, sprains, pains, &c. Sold in large bottles, price 25 cents, at the principal office, 137 Broadway, New York, and by the principal merchants and druggists throughout the United States, Canada, Mexico, West Indies, Great Britain, France, &c. 4 12\*

CLOCKS FOR CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c., and REGULATORS FOR JEWELLERS.—The undersigned having succeeded in counteracting effectually the influence of the changes of the temperature upon the pendulum, and introduced other important improvements in the construction of clocks, &c. prepared to furnish an article, superior in every respect (the highest grade warranted to vary less than two minutes in a year) to any made in the United States. Complete opportunity will be allowed to test each article. (Glass illuminated) dials of the most beautiful description furnished. 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.] 5tf

PATENT CAR AXLE LATHE—I am now manufacturing, and have for sale, the above lathes; weight, 5,500 pounds, price \$600. I will furnish a man with each lathe, who will turn and finish axles for 50 cents each, if desired. 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. 7 6m\*

MACHINERY FOR SALE.—Four dead spindle filling frames, 1-16 strand speeder, 1 warper, 1 lapper, &c. Also turbine water wheels, 6 ft. diameter, of most approved patterns, at \$275 each; a breast wheel, &c.; 20 feet long, and an iron under-shot water-wheel. ELI WHITNEY. 7 6\*

VALUABLE WATER POWER and Machinery for sale in Virginia.—This property is situated on the Rivanna River and Virginia Central Railroad, within one and a half miles of the town of Charlottesville, and known as the "Charlottesville Factory." The river is navigable from Richmond to the spot. The property consists of an abundant water power, about 13 acres of land, a cotton and woolen factory, containing 552 spindles and 12 looms, with the usual accompaniment of machinery, wool cards, jack, &c., grist, plaster, and saw mills, iron foundry, brick store-house, and dwellings for some ten or a dozen families; also a variety of carpenters', machinists', and blacksmiths' tools, comprising cutting engine, lathes, screw tools, &c. The entire property will be sold at public auction on Thursday, Dec. 2nd next, on very accommodating terms. For further information address J. W. Saunders, J. A. Marchant, or the undersigned, Charlottesville, Va., 8 3\*

IRON FOUNDERS MATERIALS.—viz.: fine ground and Botted Sea Coal; Charcoal, Lehigh, Soapstone and Black Lead Facing. Iron and brass moulding sand; Fire Clay, Fire sand and Kaolin; also English, Scotch and Welsh Fire Bricks—plain arch, circular and tower cupola—for sale by G. O. ROBERTSON Liberty place, between 57 and 59 Liberty-st. (near the Post Office) N. Y. 7 12\*

GREGORY'S PATENT EQUALIZER, for Engines using steam expansively.—This invention largely economizes fuel, and may be attached, at a trifling cost, to any engine now working, high or low pressure, on land or water, City, County, and State Rights for sale. Terms and particulars may be had, by letter, or on personal application to T. B. ROBERTSON, Agent, 120 Water st., N. Y. N. B.—A liberal commission allowed. 7 4\*

A CARD.—The undersigned begs leave to draw the attention of architects, engineers, machinists, opticians, watchmakers, jewellers and manufacturers of all kinds of instruments, to his new and extensive assortment of fine English (Stubs) and Swiss Files and Tools; also his imported and own manufactured Mathematical Drawing Instruments of Swiss and English style—which he offers at very reasonable prices. Orders for any kind of instruments will be promptly executed by F. A. SIBENMANN Importer of Watchmakers' and Jewellers' Files and Tools and manufacturer of Mathematical Instrument 154 Fulton st. 6 9\*

SCRANTON & PARSHLEY, Tool Builders, New Haven, Conn., have on hand six 12 ft. slide lathes, 28 in. swing; also four 8 ft. do.; 21 in. swing, with back and screw gearing, with all the fixtures; one 5 ft. power planer; 12 drill presses, 4 bolt cutting machines, 30 small slide rests; 5 back geared hand lathes, 21 in. swing; 15 do. not geared; 8 do. 17 in. swing on shears 5 1/2 feet; 25 ditto with and without shears, 13 in. swing; counter shafts, all hung if wanted suitable to the lathes. Scroll chucks on hand; also index plates for gear cutting. Cuts of the works can be had by addressing as above, post-paid. 9tf

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 above-named foundry—or at his residence No. 764 Broadway, Albany. GEO. W. BEARDSLEE. 5tf

WATTS & BELCHER, Manufacturers of Steam Engines, Lathes, Planing Machines, Power Presses, and Mechanics' Tools of all descriptions. Orders respectfully solicited and punctually attended to. Washington Factory, Newark, N. J. 7 20\*

LIST OF PRICES of Universal Screw Chucks, manufactured and for sale by O. L. REYNOLDS, Dover, N. H.:—4 inch diameter, \$12 6 inches, \$18; 6 inches, \$25; 12 inches, \$30; 15 inches, \$35; 18 inches, \$40. 7 4\*

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; Morticing and Tenoning machines; Belting; machinery Beal's patent Co's and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 1tf

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. THOS. PROSSER & SON, Patentees, 1tf 28 Platt-st. N. Y.

LATHES FOR BROOM HANDLES, &c.—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 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. At this Office.

MALLEABLE IRON FOUNDRY, EASTON, Mass.—The subscriber continues to manufacture castings of every variety, for machinery and other purposes, of the best quality, at the above establishment, we have facilities for making castings 5 1/2 feet in length. Persons wishing castings can send patterns to Easton Express, Boston, Mass. All letters will be promptly attended to. 8 10\* DANIEL BELCHER.

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, New Haven, Ct.; or WM. WOOD, Westport, Ct. All letters will be promptly attended to. 3tf

LEONARD'S MACHINERY DEPOT, 109 Pearl-st. 60 Beaver N. Y.—The subscriber is constantly receiving and offers for sale a great variety of articles connected with the mechanical and manufacturing interest, viz.: Machinists' Tools—engines and hand lathes; iron planing and vertical drilling machines; cutting engines, slotting machines; bolt cutters; slide rests; universal chucks &c. Carpenters' Tools—mortising and tenoning machines; wood planing machines &c. Steam Engines and Boilers from 5 to 100 horse power. Mill Gearing—wrought iron shafting; brass and iron castings made to order. Cotton and Woolen machinery furnished from the best makers. Cotton Gins; hand and power presses. Leather Banding of all widths made in a superior manner; manufacturers' Findings of every description. P. A. LEONARD. 10tf

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\*

RAILROAD CAR MANUFACTORY.—TRACY & FALES, Grove Works, Hartford, Conn. Passage, Freight and all other descriptions of railroad Cars, as well as Locomotive Tenders, made to order promptly. The above is the largest Car Factory in the Union. In quality of material and in workmanship, beauty, and good taste, as well as strength and durability, we are determined our work shall not be surpassed. JOHN R. TRACY, 39tf THOMAS J. FALES.

BEST CAST STEEL AXLES AND TYRES, (a new article) for Railroad Carriages and Locomotives. The quality of this steel is sufficiently attested in the announcement that it has carried off the first prizes awarded at the World's competition of 1851, in London. The axles are in general use on the Continent, and are now offered in competition with any other that can be produced; and to be tested in any way that may be desired by the engineers of the United States, either by impact or by torsion. This steel is manufactured by Fried Krupp, Esq., of Essen, in Rhenish Prussia, represented in the United States by THOS. PROSSER & SON, 28 Platt-st., N. Y. 2tf

TO ENGINEERS.—A new Work on the Marine Boilers of the United States, prepared from authentic Drawings and Illustrated by 70 Engravings—among which are those of the fastest and best steamers in the country—has just been published by B. H. BARTOL, Engineer, and is for sale at the store of D. APPLETON & CO., 200 Broadway. 1 12\*