

TO CORRESPONDENTS.

A. F., of Mass.—Caveats can be renewed yearly by the payment of \$20. Models are always necessary when application for a patent is made, where the invention admits of one.

L. V. B., of Ky.—We thank you for your attention. The process you describe is well known in this section, and is, we believe, generally pursued.

Y. G., of Del.—If you will carefully read our remarks, in Nos. 6 and 8, of this Vol., you will find explicit answers to each of your inquiries, therefore we deem it unnecessary to re-publish our remarks addressed personally to you. We have had correspondents write us for a private opinion upon some subject discussed and endorsed in the Scientific American, as though we were hired servants—victims—entirely to the filthy lucre; no honesty as editors, but passably decent as men. We do believe such fellows are either thick-headed, or would pick our collapsed pocket-book, if they had a fair chance.

S. H., of Ill.—We think well of the chain pump; it is simple and effective. The plan you entertain could not be patented.

N. B. L., of Md.—There is nothing patentable in your plan for grinding apples; it is the same in principle as Beal's Corn and Cob Crusher. Blanchard's machine for turning spokes is a good one; A. K. Carter, of Newark, N. J., is the agent to apply to.

W. J. F. S., of Ill.—The plan of your wagon-wheel is new, and doubtless patentable. You can send us a model.

C. M., of N. Y.—We suppose a patent on the design of the ornamental tree box could be patented, or upon the mode of coupling, if new. To decide this point we should require a drawing or a model.

E. B. R., of Ky.—We do not know of any machine in use for sawing geometrical stair rails, but Cochran's machine for sawing ship timber could do it. The carved moulding for chairs and other furniture is done by hand; but there are carving machines, such as that of Mr. Singer, which can carve the like. Machines for cutting mouldings, we suppose you are acquainted with.

T. H. J., of N. Y.—We had considerable difficulty in making out your proper address, as there are several Fayettevilles in this country: our correspondents are many times very careless about giving the town and State in which they reside, and, in consequence we are subject to much inconvenience.

A. H., of Mo.—Your roof appears to be very good, and we do not know of another like it; the form however, is like that of the old tile roof. We like to have the chalk in the cellar, to generate the carbonic acid, for it is easier to conduct it upwards than downwards.

J. P. S., of N. Y.—Theoretically, any of the common water rams will raise water by a ten foot fall fifteen feet high—two-thirds of the water. In Ewbank's Hydraulics, it is not stated how high the head of the water ram column was; perhaps it was taken from one of the falls on the Rhine—the statement, however, appears to be too highly colored.

W. P. B., of Ala.—The roofs you speak of must be good. We have some of the same kind here, only instead of the bricks, fine gravel is used; it would not answer for a pavement in this city, however, for we have seen it tried with a top covering of blocks, and it did not stand so well as the Russ pavement; in some parts we believe it would answer well, but it is not patentable.

D. R., of N. C.—We believe that the Camel Steam Tug is both a rational, practical, and good invention. To test the matter, the first tug should be well built in every respect; we have seen a good invention condemned for want of care in the first experiment; it will be a useful vessel in many places, but in every harbor of any note, one or two good dredge boats should always be employed. All our dredge steamboats are miserable affairs; we have not a single good one here.

H. M., of Vt.—We shall publish the engraving of your plane as soon as we can reach it. Your second letter is received; there may be minor differences in the two arrangements referred to.

W. J. D., of Ind.—A small engine of the size you specify, can be had of Hoard & Bradford, of Wattertown, Jefferson Co., N. Y., at a reasonable price.

L. P. S., of Ct.—A work upon metals was published not long ago, by H. C. Baird, of Philadelphia, but it does not treat upon the points you speak of, and we do not know of any good publication that will suit your wants. The art of polishing and burnishing metals is acquired by practice.

Money received on account of Patent Office business for the week ending November 29.

D. A. B., of Ill., \$20; L. & C., of Ohio, \$25; H. H., of Ct., \$12; G. & P., of Mass., \$55; J. A. R., of Mo., \$50; H. S., of N. H., \$30; M. R. L., of Miss., \$30; H. D. T., of N. J., \$27; S. R., of Md., \$20; G. G., of N. Y., \$15.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Nov. 29:—

N. H. L., of S. C.; H. H., of Ct.; D. A. B., of Ill.; C. B. M., of N. Y.; W. McC., of N. Y.; A. S., of Pa.; E. L. N., of Mass.; C. J. B., of N. H.

The good citizens of Buffalo N. Y., can obtain the Scientific American, at T. S. Hawk's Literary Depot, Post Office.

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 60 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.

BILLINGS PATENT BAND WRENCH, for Wagons and Carriages.—This article is fully described and illustrated by engravings in No. 7, Vol. 7, of the Scientific American. The Patent Band Wrench applies to wagons and carriages where the common or square nut is used. They are perfectly tight and prevent all dust and dirt from reaching the axle. The wheel is taken off by means of a small pocket key. A Silver Medal was awarded this article by the American Institute at their late Fair in this city. The Bands are manufactured by the Patent Band Wrench Co., located at Claremont, N. H. Smith Van Horn & Co. are the agents for this city. Orders addressed them, as above, will meet with prompt attention. A. M. BILLINGS, 12tf General Agent for the Co.

ENGELBRECHT & HOOVER, No. 257 Broadway, (Opposite the Park), New York, in the business of a general Patent Agency, and matters connected with the purchase and sale of inventions and patents. At the above establishment any acknowledgment good invention, or Letters Patent, can be purchased or sold for any portion of the United States or Europe. 12 4*

A. B. WILSON'S SEWING MACHINE, justly allowed to be the cheapest and best now in use, patented November 12, 1850; can be seen on exhibition at 195 and 197 Broadway (formerly the Franklin House, room 23, third floor), or to E. E. LEE & Co., Earle's Hotel. Rights for territory or machines can be had by applying to GEO. R. CHITTENDEN, Agent. 12 2*

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 Gummers of approved and cheap kind, &c. Gearing, Shafting, large and small, cast or of wrought iron. 11tf

WANTED.—By a middle-aged man, a situation where he could make himself generally useful by book-keeping, drawing machinery and architecture, with a house or engine builder, or railroad constructor, or in a factory of any description; and could teach drawing and French. Has no objection going to any part of the Union. Direct answer to E. B. French, Chatham Square Post Office, N. Y. 11 3*

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; 9 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

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*

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 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 Carrollton, Pickens Co., Ala. 3 12* WM. B. TILTON.

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 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 8*

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, are prepared to furnish an article, superior in every respect (the highest grade warranted in any case) to any other clock in the market. Every opportunity will be afforded to test their qualities. 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.] 5 10*

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. New Haven, Oct. 22, 1851. 7 6*

IRON FOUNDERS MATERIALS.—viz.: fine ground and Bolted 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*

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. SIBEMANN Importer of Watchmakers' and Jewellers' Files and Tools and manufacturer of Mathematical Instruments 154 Fulton st. 6 9*

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 always on hand, wholesale and retail, at No. 4 Howard st., New Haven, Ct. 10 7* AARON KILBORN.

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*

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 4*

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 above 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*

PAINTS, &c. &c.—American Atomic Drier, Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., 9tf Painters and Chemists.

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 Beal's patent Cob 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.

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. 37tf

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 tennoning 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. 37 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, THOMAS J. FALES. 39tf

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 Rhinish 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*

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. 9tf