

TO CORRESPONDENTS.

T. B., of Mass.—We are not able to tell you whether the Collins or Cunard Lines carry different pressures of steam.

C. H. S., of La.—There is no patent for mixing hydraulic cement: use a large quantity of water, and mix it well by beating and stirring in a wooden vessel.

A. V. G., of Canada.—There are a number of contrivances for operating switches such as you speak of; none of them have been adopted, and it is doubtful whether railway corporations would be willing to risk any of them in preference to the charge of an individual.

W. G., of Ill.—Your communication in (hieroglyphic) Pongtipografik language, as you are pleased to call it, has been perused, but thought not to be of sufficient interest to publish.

S. L. G., of N. Y.—Your name has been corrected on our books; we cannot inform you what the largest locomotive in the country does weigh.

H. H. M., of Ill.—From your drawing we judge it is the same as the compound rail: you have been anticipated. We cannot see upon what point we could base a claim to the level you speak of, and assuredly it cannot be combined with your other patent.

E. G. D., of Va.—Alabaster is a stone, usually white, resembling marble, but soft enough to be scratched by iron; the term is said to be derived from Alabastim, a town of Egypt.

H. M. S., of N. Y.—Your arrangement for digging potatoes is thought by us to possess novelty sufficient to warrant an application for Letters Patent.

A. & W. B., of N. Y.—The engravings of your saw sash will appear next week; press of matter for a few weeks past has prevented your engravings appearing earlier.

R. O., of Pa.—You had better send a model of your Governor for our examination, or we will examine it by a sketch, if you prefer.

S. A., of N. Y.—Do not use two or more cylinders in the Prime Conductor, expecting to get intensity from extension of surface. The Rifle has been condemned by some—personally, all we can say about it is, we do not recommend it.

W. W., of Pa.—We have seen an experiment made of the very plan you describe, but it could not elevate the apparatus an inch above the ground: we want the discovery of a new power to do so.

J. B. S. H., of Mass.—The suggestions made by you were inserted in the specification before it was forwarded to the Patent Office.

S. W. & R. M. D., of Mass.—Your remarks were timely made, and all the necessary alterations attended to previous to filing your papers.

W. A. G., of Ky.—After you furnish us with a model of your invention we can prepare the drawings and specifications therefrom. The fees in your case would be \$20, exclusive of Government fees, which are in all cases \$30 in addition.

J. K., of N. H.—We have no numbers of Vol. 3 to send you.

S. C., of R. I.—We suppose that Arnott would not really disagree with you about the immovable fulcrum, but the question just lies in "what is a movable fulcrum?"

J. B. W., of N. C.—The great object in extinguishing fires is "the cheapest method;" nothing, in our opinion, can compete with the force pump and water alone. We believe your plan for finishing rooms, such as the Patent Office, is new; it is, in our opinion, a good one, and rooms could be rendered very handsome at but little expense; but we do not think you would be able to secure a patent.

J. C., of Geo.—The description you give of the fastener will be proof against subsequent parties: we shall file away your letter for that purpose.

W. H. C., of Mobile.—We called upon Sturges, Clearman & Co., about the box, and they are trying to find it out; the result will be communicated to you by letter.

A. F. W., of Pa.—We could send you a good case of mechanical instruments for \$20, and a first rate case for \$25.

J. B. L., of Ohio.—We know of no such apparatus in use, or ever having been in use, for the bottles, as you mention; to us it is quite new and must be very useful.

J. B. F., of Mo.—We have seen a wheel with the same kinds of blades as you have sent in your sketch, it was used on a boat on the North River: it did not succeed.

G. B. D., of Gosport, I. W.—You may send on the sketches and we will examine them.

Money received on account of Patent Office business for the week ending October 11th.

B. S. W., of L. I., \$40; T. S. B., of Phila., \$30; D. W., of N. Y., \$45; P. P. R. H., of O., \$50; T. E. S., of Pa., \$30; B. & W., of Ct., \$10; W. R., of Vt., \$10; L. N., Jr., of Mass., \$30; N. H. L., of S. C., \$55; D. E. McD., of N. Y., \$30; M. R. & D. R. L., of Miss., \$20; S. G., of N. Y., \$20; W. D., of L. I., \$50.

Specifications and drawings belonging to parties with the following initials have been forwarded to the patent office during the week ending Oct. 11th.

E. B. L., of N. Y.; T. S., Jr., of N. Y.; H. M., of Pa.; M. M. C., of N. Y.; B. S. W., of L. I.; W. D., of L. I.; L. N., Jr., of Mass.; W. B., of N. Y.

Binding Volume 6.

Subscribers who desire to get their volumes of the Scientific American bound, can have them executed in a substantial and uniform manner by sending them to this office. Price 75 cents.

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.

New Edition of the Patent Laws.

We have just received another edition of the American Patent Laws, which was delayed until after the adjournment of the last Congress, on account of an expected modification in them. The pamphlet contains not only the laws but all information touching the rules and regulation of the Patent Office. We shall continue to furnish them for 12-1-2 cts. per copy.

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.

Postage on Books.

Subscribers ordering books or pamphlets through us are particularly requested to remit sufficient to pay postage, or we cannot attend to their orders. We are obliged to pay from 10 to 50 cents every time a pamphlet or book is sent by mail, and the postage and the justice of our demand is made apparent.

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.

MUNN & CO., Scientific American Office, 123 Fulton street, New York.

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 to vary less than two minutes in a year) to any made in the United States.

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.

PORTER'S IMPROVED FORGE TUYERE.

This Tuyere has proved itself the best in existence; the advantages that it possesses, if made use of, will add to the profits of the fire from 25 to 50 cents a day more than can be made from any other tuyere. With it the blast can be regulated effectually and kept clear of clinkers, and it gives the smith every command of his fire that he can wish; it operates perfectly, is durable, and cannot be put out of order.

ENGINE AND HAND LATHE.—The undersigned, agents for the Guilford Manufacturing Co., offer, at low prices, for sale Lathes of various descriptions, from 2 feet to 20 feet shears, with or without Screw gear.

Foreign Patent Office.

MESSRS. MUNN & CO. transact business connected with Patents in all European countries, where this species of property is recognized. They take pleasure in referring parties to Smith Dunning, Jr., N. Y.; Ebenezer Barrows, N. Y.; Charles Starr, Bible House; William Van Anden, Poughkeepsie; Mortimer & Gardiner, Charleston, S. C.; William Bushnell, N. Y.; J. S. Prouty, Geneva, N. Y.; Gail Borden, Jr., Galveston, Texas, and to all others for whom they have done business.

KELLY & CO., New Brunswick, N. J., Foundry and Machine shop, manufacturers of stationary Engines, India Rubber Machinery, Mill Gearing, and stove castings &c. Articles made in the machinery line to order with dispatch and in the most workmanlike manner.

HUTCHINS' CRANK INDICATOR.—The subscriber having purchased the entire right of Hutchins' Patent Crank Indicator, would respectfully inform the public that he is ready to supply orders or sell territory. The Indicator has been used aboard the "Northern," "Bay State," "Cataract," "Niagara," "Ontario," and "Lady of the Lake," the Captains and Engineers of which have all given their testimonials of approbation.

WE HAVE FOR SALE, a bound set of the London Patent Journal, consisting of the first 10 volumes. It is a valuable work for the Inventor, Mechanic, or manufacturer. The last Volume comes up to near March 29, 1851. Price \$30.

ALCOTT'S LATHES.—I would say, in regard to the Alcott Lathe I purchased of you about a year ago, that it will perform all that it is represented to, and could I not get another I would not take \$50 for it, so that you need not be afraid to recommend them.

1851 TO 1856.—WOODWORTH'S PATENT Planing Machines in New York and Northern Pennsylvania.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machine.

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. Munson) or at Carrolton, Pickens Co., Ala.

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.

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.

STEAM ENGINES FOR SALE.—One 8 horse power engine, boiler, heater, and apparatus complete—price \$750; one 5 horse two cylinder engine, with governor, pump, and band wheel—price \$200; one 6 horse ditto (new)—price \$225.

PRACTICAL AND SCIENTIFIC BOOKS.—"History of Propellers and Steam Navigation, with Biographical Sketches of Early Inventors;" by Robert Macfarlane—Editor of the Scientific American: 1 Vol., 12mo.—75 cents.

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.

PALMER'S ARTIFICIAL LEGS.—Manufactured at Springfield, Mass., and 376 Chestnut-st. Philadelphia, by Messrs. Palmer & Co.—All orders from New York and New England must be made to Palmer & Co. Springfield, Mass.—"I have examined carefully the Artificial Leg, invented by Mr. B. F. Palmer; its construction is simple and its execution beautiful; and what is most important, those who have the misfortune to require a substitute for a natural limb and the good fortune to use it—all concur in bearing practical testimony to its superiority in comfort and utility.

A YOUNG MAN who has had considerable experience in this country and Europe, in the construction and designing of machinery, &c., is desirous of meeting with a situation as Mechanical Draughtsman or Manager. Address "H. E.," care of Stokes & Brother, Philadelphia.

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.

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.

TO PAINTERS AND OTHERS.—American Anatomic Drier, Electro Chemical graining colors, Electro Negative gold size, and Chemical Oil stove Polish. The Drier improves in quality by age—is adapted to all kinds of paints and also to Printers' inks and colors. The above articles are compounded upon known chemical laws and are submitted to the public without further comment.

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.

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.

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.

IMPORTANT TO INVENTORS.—Inventors residing in the West, requiring models for their inventions to be deposited in the Patent Office, will find it to their advantage to call at PLATT EVEN'S, Jr., 187 Walnut street, Cincinnati, Ohio. Philosophical instruments, light machinery, and fine jobbing, promptly attended to. Orders received with designs by mail, post-paid.

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.

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.

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.

RAILROAD CAR MANUFACTORY—TRAFFIC & PALES, 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 unsurpassed.

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.

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.