

TO CORRESPONDENTS.

A. L. S.—Your specification was altered in accordance with your suggestions, before being transmitted to the Patent Office.

S. C., of R. I.—We have received yours. As you stated in your last, if you "cannot conceive or imagine what an immovable or movable fulcrum has to do with the passage you quoted from Arnott," then we cannot imagine why you said, in reference to it, "I contend, and shall prove, that no power is lost upon an immovable object, any more than the power of a lever is lost upon an immovable fulcrum."

"Action and re-action are equal," and we have seen no reasons adduced worth consideration to controvert this.

B. H. W., of Ky.—We would not advise you to purchase "The Calculator," Mahan's Civil Engineering, and Gillespie on Roads, are the only two books we would recommend now. The price of them is \$5, we think. The lamp, we do not believe, would operate well, and it would be expensive in construction. The spring pump, or French lamp, furnishes a uniform supply of oil, still we do not like it; simplicity is embraced in capillary attraction, and it furnishes a supply sufficiently uniform for all purposes.

W. H. of N. Y.—You have mistaken the cause of our not replying to your previous communications; it is because you do not give us your true and full name.

J. D. S., of S. C.—We have marked your subscription up for the full amount which you sent, deducting \$2 for Mr. Campbell. We could not procure a book on the subject you suggested for anything like the balance that would have been your due.

F. S., of N. H.—We are willing to answer any inquiries that you may put to us that can be answered without subjecting us to leave our office, but we cannot run around the city to do errands for you; did you not possess considerable assurance you would not ask us to do so.

"A Foreigner" is informed that a model is as much required to complete an application for a patent as the drawings and specification. You can make an application for a patent on the same terms as a native citizen, if you have declared your intention to become a citizen of the United States. The fees you would be required to pay are \$30.

F. S. L., of Ohio.—You have been written to several times, if you have not received the answers it is not our fault. The way to make india rubber adhere to iron, is to heat the iron to such a heat as will soften and make the rubber adhere. There is no table that we know of, which gives the expense of zinc in the Grove battery; the best work on this subject is that of Geo. Mathiot, in our last volume.

T. V. T., of —The subject you propose is not one that we, in the course of events, wish to meddle with in the manner you propose. Our paper is not an arena for debate, but is open for the promulgation of useful information, and he who hath any to impart receives respectful attention, if his article is clear and not too long.

D. E. S., of Ohio.—We have carefully examined the sketch of your improved gate; it is believed to be substantially similar to the gate patented by Lorenzo Smith in 1849; he claims a single or double gate, constructed so as to turn up vertically by the parallel movement of the rails, in lieu of swinging each way in the ordinary manner. Your arrangement is based upon the characteristics set forth above, but varies somewhat in its details: it is doubtful whether you could use it without interfering with Smith's patent.

J. H., of Ind.—Your arrangement for planting corn appears to be very good, and we incline to the opinion that it is patentable; there are, however, so many different kinds that it will be almost out of the question to state positively.

W. J. T., of Pa.—Yours of the 13th has been received; we do not see upon what point a claim can be based in your alleged improvement in water-wheels; it is possible that, by the aid of a sketch and description, we should change our opinion respecting its novelty. We would inquire what advantage is supposed to be gained by the arrangement, that has not already been attained. This point does not appear clear to us.

J. G., of Ill.—Your plan for a cotton gin appears to be essentially the same as Carver's Patent, which has proved valueless in practice; the sketch, however, is imperfect and conveys a vague idea of the invention. Experiments will be necessary to establish its practical value.

S. W., of Ohio.—We have examined the sketch of your Rotary Engine, and do not find any point upon which a claim could, in our opinion, be substantiated. Cams for operating valves in rotary engines and pumps are well known; an engine constructed upon essentially the same plan as yours, was in operation six months since, in Gold street, this city; it did not operate well. You are advised to abandon it without any further expense.

E. L. H., of Geo.—We do not see anything new in your balloon on which a patent could be secured; it is not so good in its shape as Bell's or Pennington's; no utility can ever be derived from your arrangement.

H. G., of Mo.—We should charge you \$20 or \$25 for attending to your business.

H. F. M., of Ind.—By addressing a note to Daniel Belden, of Berlin, Ct., you will get all the information you need in regard to a first rate machine for boring hubs to wheels.

D. R., of N. Y.—The manufacturing of shears and scissors in this city, is extensive, and you could probably get an order filled in quick time by coming here.

J. L. S., of Ind.—There were never but 10 numbers of Duggan's work published.

M. M. M., of Vt.—Since you have not water power to pump the water out of your quarry, what do you think of a horse-power? A strong horse applied to an old-fashioned lifting pump, should raise 30 cubic feet of water 7 feet high, in a minute, with ease, for that is not quite the work of half a horse power. A good small steam engine, of 6 inch bore and 12 inch stroke, would answer well; we would choose it in preference to any other, if you have cheap fuel: an engine of such capacity (an oscillating one) can be purchased for about \$400, with boiler and all complete.

Money received on account of Patent Office business for the week ending October 25.

A. S., of Pa., \$20; I. Van K., of Mass., \$55; J. Van H., of Ill., \$55; G. H. D., of Mass., \$20; M. M. I., of Ga., \$50; J. H. R., of N. Y., \$50.

Specifications and drawings belonging to parties with the following initials have been forwarded to the patent office during the week ending Oct. 25.

I. Van K., of Mass.; P. & J. R. T., of Ct.; A. B. B., of Ct.; F. P. R. H., of O.; S. G., of N. Y.; M. M. I., of Ga.

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.

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 us through the post, 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 running over 16 lines, and cuts cannot be inserted in connection with the 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 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. In the item of charges alone, parties having business to transact abroad, will find it for their interest to consult with us, in preference to any other concern. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

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*

WATTS & BELCHER, Manufacturers of Steam Engines, Lathes, Planing Machines, Power Presses, and Mechanisms. 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, N. H.—4 inches diameter, \$12; 6 inches, \$18; 9 inches, \$25; 12 inches, \$30; 15 inches, \$35; 18 inches, \$40. 7 4*

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. 76* New Haven, Oct. 22, 1851.

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*

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*

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*

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, Foughkeepsie; Mortimer & Gardner, 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.

PATENT FELLY MACHINE.—This machine, for cutting fellys for wheels, is superior to anything of the kind for that object; with it, cutters are used instead of saws, and are easily adjusted to produce any required circle, in common use, leaving them perfectly smooth, thereby making a great saving of expense in dressing them for use. This machine was patented in 1850. For machines, or county and State rights, address JOSEPH ADAMS & SON, Amherst, Mass.; J. B. Wynne, Agent for the State of S. C. P. S.—Agents wanted to travel in Southern and Western States, to sell rights for the above machine. Good references will be required. 6 4

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

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. F. R. BARTLETT. 2tf Galesburg, Ill.

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 Carrollton, 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 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*

STEAM ENGINES FOR SALE.—One 8 horse power engine, boiler, heater, and apparatus complete, with governor, pump, and band wheel—price \$200. One 6 horse ditto (new)—price \$225. Also, now finishing on hand, slide and hand lathes, upright and portable machines, &c. Inquire of CARLENTON & PLANS, corner of Hester and Elizabeth streets New York. 4 4*

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. Price 25 cents per bottle. To be obtained, wholesale or retail, of Mr. A. C. BARRY, 137 Broadway. 4 3m*

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, 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 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. 5tf.

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 on 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. A vast amount of evidence can be shown of its great superiority, from this city and elsewhere. I will sell the rights for counties or States, or to any man or set of men wishing to engage in a good speculation, I will sell the entire patent. Address ROBT. L. PORTER, Philadelphia Hotel, Jersey City. 5 3*

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*

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 Palmr & 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. VALENTINE MOTT. New York Jan. 29, '51. 39 6meow*

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. 47tf

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

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.—Manufactured and sold wholesale and retail at 114 John st. N. Y. and Flushing L. I. N. Y.; by QUARTERMAN & SON Painters and Chemists. 48tf

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 Machine; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Funches and Shears; Morticing and Tenoning 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.

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 inch 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. 1tf

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. Parties wanting machinery or castings made will be waited on within any reasonable distance. Orders solicited. 47 12*

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, Easton, Conn.; 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; sliderests; 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. Cotten Gins; hand and power presses. Leather Banding of all widths made in a superior manner; manufacturers' Findings of every description. P. A. LEONARD. 48tf

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, 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 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., 1 12* 200 Broadway.