

S. W. H., of N. Y.—In South America, where fuel is scarce, silver is separated from its ores by grinding them to very fine powder, then exposing them for a considerable time to the successive action of common salt, sulphate of copper and mercury. These substances, mixed with the silver ore, are spread on a paved floor and trodden by horses, to effect an intimate mixture or amalgam, which is separated from the exhausted ore by washing in water. Another method of extracting silver from its ore, is by fusing it with three times its weight of lead, then expelling it in a crucible with saltpeter. This process oxidizes the lead, the silver forming in a button at the bottom of the crucible.

B. C., of Md.—You are a common sense man, and we ask you, does it stand to reason that a patent agent can do a regular business and base his fee upon the issue of the patent, and thus take all the contingencies that are likely to arise in each case? The fact is, such agents are usually without clients, reputation, skill or integrity, and if your case should happen to get into the Patent Office after you had paid the official fee, and be rejected, the \$20 would be withdrawn without consultation with you, and you would thus be placed in an almost hopeless condition. Cases similar to this are frequently coming under our notice. We have one now before us, where an obscure Washington agent (Speer) got the \$30 and gave his victim no satisfaction, not even to reply to his client's letter.



BOTTLE FOR THE PREVENTION OF POISONING.—On page 243, present vol. SCIENTIFIC AMERICAN, we described a method of constructing bottles for enabling small quantities of fluid to be dropped from the neck by narrowing the aperture underneath the stopple, and we now give an engraving of it, which will better show its construction.

D. R. STEVENSON, of Allegheny City, Pa., desires to state that he has a set of bound volumes of the SCIENTIFIC AMERICAN, from Vol. I to X, which he would like to sell at \$5 per volume. Persons often write us for the work complete; and no doubt, by obtaining the first ten volumes of Mr. Stevenson for \$50, they will be able to procure the last three at a less price per volume.

W. B., of N. Y.—Little & Brown, of Boston, are the publishers of Francis' work on the Lowell experiments with turbine water-wheels. There is no other work to which we can refer you for practical information on this subject.

P. C. R., of N. Y.—The black coating on the outside of lamps is given either with black asphaltum or black copal varnish; and the yellow with lacquer, which is lac varnish colored with turmeric. All these varnishes are made by manufacturers, and sold at retail by dealers in painters' materials.

N. B., of C. W.—"Enamelled furniture" is so named from receiving several coats of paint and varnish, and being polished down so as to give it a very smooth surface. If you use light color varnish it will not crack so readily as lac-spirit varnish.

J. C. F., of N. Y.—We cannot send you the numbers wanted of Vol. VI. Peter Yates' pulley-engine has never been tried, so far as we know, since his experiments were made some years ago in this city. We were informed that it was continually getting out of order, and did not give satisfaction.

W. H., of Ohio.—Steel springs, after they are polished, are placed in an oven containing sand highly heated, and in this they are kept until they acquire the proper color—blue, purple or straw—which indicates the temper desired, when they are withdrawn.

H., of B. ston.—The description of ore of gold was published on page 308, Vol. XI, SCIENTIFIC AMERICAN.

A. P. R., of Ohio.—Friction matches are made by dipping their ends first in molten sulphur, then, when cold, into a composition of 9 parts phosphorus, 14 of niter, 16 peroxide of manganese, and a little sulphure of antimony, mixed intimately in a solution of gum arabic. You will find some further information on this subject on page 212, Vol. XI, SCIENTIFIC AMERICAN.

W. B. G., of N. Y.—Your subscription is paid until March, 1860. Your proposed method of increasing the intensity of a Smee's battery, if found useful, is patentable, because it is new.

C. F. G. M., of Ind.—If there is sufficient force in the St. Joe River, near your house, you may be able to put up a ram that will throw sufficient water 15 feet above its level to irrigate your grounds. There is no difficulty about making the ram operate for the purpose, if you can conveniently obtain a fall, either from the river or the brook which you have described.

O. S., of Conn.—W. B. Leonard, Esq., Corresponding Secretary of the American Institute, can furnish you with a dynamometer for testing the power of a water-wheel. It is only by such a test or a brake that you can obtain the Power of an engine or wheel.

M. C. M., of Ind.—We have no data before us in reference to the highest speed attained by locomotives in the United States.

G. P. R., of N. Y.—Your contribution, "The Heroes of Industry," will appear in the first number of the New Volume. Thank you.

G. W., of Mo.—The sponge is but the dwelling-house of one of the lower forms of life, and has no life in itself.

W. M. H., of Md.—There are so many modifying circumstances in all boiling and heating operations that it is difficult to fix any arbitrary rules in regard to proportions. You will find much useful information on this subject in "Pecol's Traite de la Chaleur." Sold by H. Balliere, of this city.

H. H., of Pa.—When the article is of such a nature that the date of the patent cannot be printed or stamped thereon, it should be affixed to the case or package containing it. This will fully meet the requirements of the law. You need not put the name of the patentee on the package.

Money received at the Scientific American Office on account of Patent Office business, for the week ending Saturday, June 11, 1859:—

- L. M., of Mich., \$30; H. W. S., of Wis., \$25; J. K., of Mass., \$55; F. H., of Ill., \$30; J. R., of Pa., \$30; A. B., of N. Y., \$250; H. D., of Pa., \$25; G. C., of Miss., \$55; J. W. N., of Ct., \$35; G. H. & S. F., of N. Y., \$30; W. D. S., of Pa., \$30; J. B. Q., of N. J., \$30; G. H. K., of N. Y., \$55; G. C., of N. Y., \$30; F. W., of Pa., \$25; W. B., of Mich., \$30; W. S. R., of S. C., \$25; P. W. G. & Co., of Ill., \$20; A. W., of Vt., \$30; M. R., of N. Y., \$55; M. & B., of N. Y., \$20; J. C., of Miss., \$25; M. & S., of Texas, \$55; J. B., of Ill., \$30; G. A., of O., \$20; H. H., of Mass., \$110; T. D. R., of N. Y., \$20; W. H., of Ga., \$25; J. H. G., of Pa., \$30; H. H., of N. Y., \$10; T. C., of Pa., \$25; J. C. P., of La., \$25; J. W. McL., of Ind., \$30; H. W. H., of Ct., \$30; J. P. of Iowa, \$20; A. Le R., of Paris, \$330; J. G. E., of Pa., \$32; J. W., of O., \$30; L. W. H., of N. C., \$30; G. W. P., of Vt., \$15; C. M., of N. Y., \$70; A. G., of Ala., \$5; W. P., of Mass., \$30; A. B., of Ill., \$25; J. H. R., of N. Y., \$150; L. S. U., of Tenn., \$30; A. L. S., of Ind., \$30; C. P. P., of Ala., \$15; E. W. D., of Mass., \$12; F. & S., of N. Y., \$140; L. R. B., of N. Y., \$30; R. S. P., of Ct., \$30; J. F. S., of N. Y., \$5; E. C., of Mass., \$100; S. B. T., of Ct., \$30; T. W., of R. I., \$20; W. T. C., of N. J., \$50; B. F., of Ind., \$30; I. F. B., of Ga., \$10; G. & M., of Ill., \$35; J. A. R., of N. Y., \$50.

Specifications drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, June 11, 1859:—

- E. B. W., of N. H.; J. P., of N. Y.; A. G., of Ala.; W. H., of Ga.; L. B. T., of N. Y.; J. T. P., of N. Y.; P. W. G. & Co., of Ill.; J. A. R., of N. Y. (2 cases); G. H. K., of N. Y.; J. G., of Pa.; H. W. S., of Wis.; C. M., of N. Y. (2 cases); H. D., of Pa.; J. W. N., of Conn.; W. G., of N. Y.; H. & K., of Mass.; A. B., of Ala.; L. M., of Mich.; J. H. G., of Pa.; E. W. D., of Mass.; C. P. P., of Ala.; H. A., of N. Y.; J. G. E., of Pa.; M. & B., of N. Y.; A. B., of Ala.; J. C., of Miss.; T. C., of Pa.; J. C. P., of La.; W. S. R., of S. C.; A. D. B., of Ga.

IMPORTANT TO INVENTORS.

AMERICAN AND FOREIGN PATENT SOLICITORS.—Messrs. MUNN & CO., Proprietors of the SCIENTIFIC AMERICAN, continue to procure patents for inventors in the United States and all foreign countries on the most liberal terms. Our experience is of thirteen years' standing, and our facilities are unequalled by any other agency in the world. The long experience we have had in preparing specifications and drawings has rendered us perfectly conversant with the mode of doing business at the United States Patent Office, and with most of the inventions which have been patented. Information concerning the patentability of inventions is freely given, without charge, on sending a model or drawing and description to the office. Consultation may be had with the firm, between nine and four o'clock, daily, at their principal office, 37 Park Row, New York. We established, over a year ago, a Branch Office in the City of Washington, on the corner of F and Seventh streets, opposite the United States Patent Office. This office is under the general superintendence of one of the firm, and is in daily communication with the Principal Office in New York, and personal attention will be given at the Patent Office to all such cases as may require it. Inventors and others who may visit Washington, having business at the Patent Office, are cordially invited to call at our office.

We are very extensively engaged in the preparation and securing of patents in the European countries. For the transaction of this business we have offices at Nos. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris; and Rue des Eperonniers, Brussels. We think we may safely say that three-fourths of all the European patents secured to American citizens are procured through our Agency.

Inventors will do well to bear in mind that the English law does not limit the issue of patents to inventors. Any one can take out a patent there.

Circulars of information concerning the proper course to be pursued in obtaining patents through our Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the principal office or either of the branches.

The annexed letters from the last two Commissioners of Patents we commend to the perusal of all persons interested in obtaining patents:—

Messrs. MUNN & Co.—I take pleasure in stating that while I held the office of Commissioner of Patents, MORE THAN ONE-FOURTH OF ALL THE BUSINESS OF THE OFFICE CAME THROUGH YOUR HANDS. I have no doubt that the public confidence thus indicated has been fully deserved, as I have always observed, in all your intercourse with the Office, a marked degree of promptness, skill, and fidelity to the interests of your employers. Yours, very truly, CHAS. MASON.

Immediately after the appointment of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the subjoined very gratifying testimonial:—

Messrs. MUNN & Co.—It affords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and, I doubt not, justly deserved) the reputation of energy, marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully, your obedient servant, J. HOLT.

Communications and remittances should be addressed to MUNN & COMPANY, No. 37 Park-row, New York.

INFORMATION WANTED OF one ARCHIBALD CAMPBELL, acting as Agent for the sale of Emery's Patent Corn-Husker, patented July 7, 1857. When last heard from he was in New Orleans. Any person having purchased Rights, or knowing of his whereabouts, would confer a great favor by informing the subscriber. WM. EMERY, Jones' Creek, Randolph Co., Ill. 41 11*

FOR SALE.—THE ENTIRE PATENT RIGHT, or State Rights, for a superior Corn-Husking Machine. The above machine is operated by steam or horse-power, and is capable of husking fifty bushels corn per hour. It separates the but or stalk, and husks the ear with one handling the corn. A full sized machine can be seen in operation at the office of the patentee, No. 139 Thames-street, Newport, R. I. For further information address WM. H. SMITH, 41 21*

TO MECHANICS.—WANTED.—A PARTNER, with \$200 to \$500, to manufacture an extremely remunerative article, on which I have a monopoly. 41 11* Apply to S. HIATT, Indianapolis, Ind.

A SUBSTITUTE FOR LEAD PIPE.—A New and Valuable Article, viz., a Semi-Elastic Pipe or Hose which can be used with pumps of any kind, for suction, forcing, or conducting water in any and every place where pipe is required. Its properties are:—It imparts no deleterious effects to the water, nor in any way affects it unpleasantly after a few days use; it is sufficiently elastic to be bent into curves, and it is unaffected by heat or cold; it will not burst if water is frozen into it; it is not injured by exposure to the sun or atmosphere; it is composed of ingredients indestructible, except by fire. Samples of it have been tested by use for three years, without the least apparent decay, and it can be made to bear pressure as high as 400 lbs. to the square inch. Price not far from that of lead pipe. Circulars with prices and particulars furnished by the manufacturers, BOSTON BELTING COMPANY, corner of Summer and Chauncy streets, Boston, Mass. 31 13*

A GOOD AND SURE INVESTMENT.—The undersigned has invented a Rotary Brick Machine, in which is combined all that is really useful. A rare inducement is now offered to a suitable person with a cash capital of \$2,000. All information given, with machinists' reference, by addressing JOHN KUTTS, patentee, No. 1220 Market-street, Philadelphia. N. B.—Any person or persons infringing my Patent will be dealt with to the full extent of the law. 41 11* JOHN KUTTS.

THE AMERICAN STAIR BUILDER.—By William P. Esterbrook and James H. Monkton. The best book on the subject. Everything connected with the science fully explained and illustrated. One large quarto volume. Price \$6. Sent by mail, free of postage. Discount to Booksellers and Canvasers. Address BAKER & GODWIN, Publishers, 40 21* Tribune Buildings, Printing-House-sq., N. Y.

TO INVENTORS AND PATENTEES.—A. B. ELY, Counselor-at-Law, Traveler Building, Boston, Mass., will give his personal attention and experience of fifteen years to consultations and trials in all matters relating to the law of patents, interferences, infringements, &c. 38 13*

MARINE RAILWAYS.—THE SUBSCRIBER, Marine and Naval Architect, is prepared to build Marine Railways and Dry Docks, and to furnish Steam and Horse-power Engines, Chains, Castings, &c., on short notice, and on reasonable terms. Satisfactory reference given. Address H. I. GRANDALL, New Bedford, Mass. 38 13*

THE SCIENTIFIC AMERICAN SIGNS, for Munn & Co., were painted by Ackerman & Miller. Refer to the Commercial Agency, McKillop & Wood, Park Buildings. All communications for signs, banners, or other ornamental work, attended to with dispatch. ACKERMAN & MILLER, 101 Nassau st., next to the New York Herald Office. 27 3m*

WROUGHT IRON PIPE FROM 1/2 OF AN inch to six inches bore; Galvanized Iron Pipe (a substitute for lead). Steam Whistles, Stop Valves and Cocks, and a great variety of fittings and fixtures for steam, gas, and water, sold at wholesale and retail. Store and Manufactory 76 John, and 29, 31 and 33 Platt st., New York. JAMES O. MORSE & CO. 31 13

GUILD & GARRISON'S STEAM PUMPS for all kinds of independent steam pumping, for sale at 55 and 57 First street, Williamsburgh, L. I., and 74 Beekman street, New York. GUILD, GARRISON & CO. 32 6m

A RARE CHANCE.—FOR SALE, AT A GREAT bargain, part or the whole of the Gravel Foundry and Machine Shop, Kenosha, Wis., together with the sole right for the States of Wisconsin and Illinois, to manufacture "Leonard's Patent" Steamless Thrillle Skanes for Wagons, the most saleable skanes in the world. Part cash and part other property. For full particulars address J. COUNCILLOR, Esq., Rahway, N. J., or the proprietors, LANGE & DOYLE, Kenosha, Wis. 39 4*

TOWHEELWRIGHTS.—I WILL PAY GOOD wages to an energetic man capable of doing the work and taking charge of a wagon and carriage factory. The machinery is driven by steam. Write to me at Claiborne, Ala. W. P. LESLIE. 40 2*

1000 AGENTS WANTED.—FOR PARTICULARS send stamp. C. P. WHITTEN, Lowell, Mass. 39 13*

WHEELER & WILSON'S SEWING MACHINES.—Office, No. 506 Broadway, New York. "They are without a rival."—Scientific American. Send for a circular. 39 4

5000 AGENTS WANTED.—TO SELL FOUR new inventions. Agents have made over \$25,000 on one better than all other similar agencies. Send four stamps and get 80 pages particulars, gratis. 39 13* EPHRAIM BROWN, Lowell, Mass.

HARRISON'S 20 AND 30 INCH GRAIN Mills constantly on hand. Address New Haven Manufacturing Co., New Haven, Conn. 27 13

WHITMAN'S TURBINE WIND WHEEL.—Territorial or shop rights for sale. For particulars, inquire of the inventor, E. WHITMAN, at South Abington, Mass. 32 12*

RIVETS.—EVERY DESCRIPTION OF RIVETS: R Boiler, Tank, Safe, Belt, Hose, Shoe, and Tinmen's, black and tinned, constantly on hand. Societ bolts, any size furnished on short notice. 38 13* TABER & GRINNELL, New Bedford, Mass.

INGOT COPPER, SPELTER, BANCA TIN, Lead, Antimony, Babbitt Metal, Mount Hope Cut Nails, Ames' Shovels and Spades, for sale by JOHN W. QUINCY & CO., No. 98 William st., New York. 13 12:50*

EIGHT-HORSE PORTABLE STEAM ENGINE, cylinder 7 1/2 by 15, governor, balance-wheel, &c., attached to a flue boiler, all new. Price \$600. S. C. HILLS, 12 Platt-st. New York. 33w

INSTRUMENTS.—CATALOGUE CONTAINING 250 illustrations of Mathematical, Optical and Philosophical Instruments, with attachment of a large sheet representing the Swiss instruments in their actual size and shape, will be delivered, on application, to all parts of the United States, by sending 12 cents in postage stamps. C. T. AMSLER, Catalogue of Stereoscopic Pictures is furnished gratis on application. 39 6:00*

GAGE COCKS, OIL CUPS, GAS COCKS, Steam Gages, Globe, Angle and Governor Valves, Flange Cocks, Pumps, &c., manufactured and for sale by HAYDEN, SANDERS & CO., No. 306 Pearl st., New York. 16 18:00*

BOILER FLUES FROM 1 INCH TO SEVEN inches outside diameter, cut to any length desired, promptly furnished by JAMES O. MORSE & CO., 76 John st., New York. 31 13

PATENT COMPOSITION BELTS.—PATENT PACKING.—The Company have an hand and are ready to supply all orders for their superior Composition Machine Belting. They are proof against cold, heat, oil, water, gases, or friction, and are superior to leather in durability, and much cheaper in cost. The composition gives to these belts uniform durability and great strength, causing them to hug the pulley so perfectly that they do more work than any other belts of the same inches. The severest tests and constant use in all sorts of places during the last 14 months has proved their superiority, and enables the Company to fully guarantee every belt purchased from them. Manufacturers and mechanics are invited to call, examine, and test these belts. The Patent Packing for planed joints is in every way superior to any other article ever used for that purpose. A liberal discount allowed to the trade. "New York and Northampton Belting and Hose Co." E. A. STERN, Treasurer, 217 Fulton st., New York. 31 13

OIL! OIL! OIL!—FOR RAILROADS, STEAM-ENGINES, and for machinery and burning. Pease's Improved Machinery and Burning Oil will save fifty per cent, and will not gum. This oil possesses qualities vitally essential for lubricating and burning, and found in no other oil. It is offered to the public upon the most reliable thorough and practical test. Our most skillful engineers and machinists pronounce it superior and cheaper than any other, and the only oil that is in all cases reliable and will not gum. The Scientific American, after several tests, pronounced it "superior to any other they have ever used for machinery." For sale only by the inventor and manufacturer, F. S. PEASE, 61 Main st., Buffalo, N. Y. N. B.—Reliable orders filled for any part of the United States and Europe. 27 13

STEAM ENGINES, STEAM BOILERS, Steam Pumps, Saw and Grist Mills, Marble Mills, Rice Mills, Quartz Mills for gold quartz, Sugar Mills, Water Wheels, Shafting and Pulleys. The largest assortment of the above in the country, kept constantly on hand by WM. BURTON, 102 Front street, Brooklyn, N. Y. 27 11

MACHINE BELTING, STEAM PACKING, ENGINE HOSE.—The superiority of these articles, manufactured of vulcanized rubber, is established. Every belt will be warranted superior to leather, at one-third less price. The Steam Packing is made in every variety, and warranted to stand 300 degs of heat. The hose never needs stiling, and is warranted to stand any required pressure; together with all varieties of rubber adapted to mechanical purposes. Directions, prices, &c., can be obtained by mail or otherwise, at our warehouse. NEW YORK BELTING AND PACKING COMPANY. JOHN H. CHEEVER, Treasurer, Nos. 37 and 39 Park Row, New York. 27 13

THE ENTIRE OR ANY PORTION OF THE right to Gardiner's Combined Chair and Lounge for sale. Illustrated in No. 37 of the present volume of the SCIENTIFIC AMERICAN. Apply to F. J. GARDNER, Washington, N. C. 37 8*

THE AUBURN VILLAGE GAS-WORKS WERE erected last year by one city and several village companies to their entire satisfaction. Towns having only fifty consumers of gas can rely on the stock-paying dividends; and if one hundred, 10 per cent will be guaranteed. For references, apply to the Company, No. 41 State street, Albany, N. Y. 28 11

CARY'S CELEBRATED DIRECT ACTING Self-Adjusting Rotary Force Pump, unequalled in the world for the purpose of raising and forcing water, or any other fluid. Manufactured and sold by CARY & BRAINARD, Brooklyn, N. Y. Also for sale by J. C. CARY, 240 Broadway, New York City. 37 11

FRUIT SOLE STEAM BOILERS, PIPES, and calico printers' use, manufactured by JOHN H. BACON, Winchester, Mass. 31 26*

IRON PLANERS AND ENGINE LATHES of all sizes, also Hand Lathes, Drills, Bolt Cutters, Gear Cutters, Chucks, &c., on hand and finishing. These tools are of superior quality, and are for sale low for cash or approved paper. For cuts giving full description and prices, address "New Haven Manufacturing Co., New Haven, Conn." 27 13

WARTH'S SELF-ACTING WOOD-TURNING LATHES.—The best and most practical now in use; one boy will accomplish the work of four men. State and County rights for sale. Address A. WARTH, care W. H. Berthing, 23 Chambers st., New York, or the manufacturers, who have machines of all sizes on hand. Also a general assortment of machinists' tools. Circulars sent. Address CARPENTER & PLASS, 479 First ave., New York. 41 2*

CROSSETT'S PATENT STAVE CUTTER.—Patented July 1, 1844; re-issued March 2, 1853; renewed and extended June 23, 1858.—The above mentioned machine is warranted to cut more and better staves than any other machine in use. United States, and is the most simple, cheap, and durable. I hereby caution all persons against using and vending said machine (the main features of which consist in the stationary knife and vibratory bed-piece) without the legal right to do so. Owners will be dealt with according to law. All persons wishing an interest in the extended term of said patent can obtain it by addressing the undersigned at Joliet, Ill. GEO. I. CROSSETT, Ass'gnee. 38 6c

WOODWORTH PLANERS.—IRON FRAMES to plane 18 to 24 inches wide.—at \$50 to \$110. For sale by S. C. HILLS, 12 Platt street New York. 27 11

LARD OIL MANUFACTURERS.—MESSRS. WM. SKENE & CO. manufacture purified Lard Oil of the best quality, for machinery or burning, in Bullet st., four doors below Main, Louisville, Ky. 25 11

BUTCHER'S IMPERIAL CAST STEEL FILES.—The subscribers keep constantly on hand a very large assortment of the above celebrated files, which are acknowledged to be unequalled in quality, and to which the attention of railroad companies, engineers, and machinists is invited. BARTON & SCOTT, No. 18 Cliff-st., New York. 25 26*

MESSIEURS LES INVENTEURS.—An Important.—Les inventeurs non familiers avec la langue Anglaise, et qui prefereraient nous communiquer leurs inventions en Francais, peuvent nous adresser dans leur langue natale. Envoyez nous un dessin et une description concise pour notre examen. Toutes communications seront recues en confiance. MUNN & CO. Scientific American Office, 37 Park Row, New York.

Zur Beachtung für Erfinder. Erfinder, welche nicht mit der englischen Sprache bekannt sind, können ihre Mittheilungen in der deutschen Sprache machen. Entzogen von Erfindungen mit kurzen deutlich geschriebenen Beschreibungen beliebe man zu adressiren an MUNN & Co., 37 Park Row, New-York. Auf der Office wird eutlich gesprochen.