



CORRESPONDENTS

A. W. A.—Correspondents who expect answers to their letters must furnish us with their full address.

D. H., of Conn.—We perceive no novelty in your forceps whatever. Watchmakers and surgeons are all provided with such instruments.

R. P., of Conn.—As soon as your case is acted upon at the Patent Office we will advise you by mail.

M. B., of N. Y.—You are quite right regarding the practicability of collecting a small column of water from springs on a hill two hundred feet high.

C. J. H., of N. Y.—We are not able to tell you what increase of power you may obtain in your engine by adopting the Wethered system of mixed common and superheated steam.

S. F. M., of S. C.—If you were to isolate your house by glass from the earth, instead of preventing danger from disruptive discharges of lightning, you would increase the danger.

F. S., of Phila.—You should try an experiment in heating the leaches in your tannery with the exhaust steam of the engine.

A. R. D., of Mass.—Glycerine is sold at a high price by druggists in this city—why, we cannot tell—as it is not much used, and is generally suffered to go to waste in soapworks.

F. G. R., of Va.—Brass and copper are superior to iron in drills for sowing guano with the seed.

N. A. M., of Ala.—A force pump is the best apparatus you can use for supplying your boiler with water from a pond or well thirty yards distant.

J. M. & Co., of Ohio.—A hydraulic ram can be made of sufficient capacity to discharge the water flowing through a 12-inch pipe under a fall of eight feet.

J. G. E., of N. C.—A pressure of 4 1/2 pounds on each square inch, with a velocity of 24 feet per second, will certainly give over a horse power for every 10 square inches of water exit.

H. W. & Co., of N. Y.—The mere purchase of a machine from a patentee does not necessarily include the right to use it at all.

D. A. B., of Ala.—As far as we are capable of judging from the sketch and description you send of your sewing machine, it contains no feature of patentability.

C. H. D., of N. Y.—The barrels of guns are browned by forming an oxyd on their surface with a weak acid.

SOMETHING USEFUL for Machinists and operatives of Machinery—Simmons' Decimal Chart, for finding the size of wheels and pulleys for any required number of revolutions per minute.

PLATINA POINTS FOR LIGHTNING RODS.—Our points have been in use for twenty years, and have given general satisfaction.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, May 23, 1857.

Y., \$10; S. G., of N. Y., \$50; S. G. McM., of Ill., \$55; J. C. T., of Ill., \$50; S. A. B., of L. I., \$25; C. B. S., of Mass., \$27; S. I., of L. I., \$25; I. H. P., of N. J., \$25; F. S., of N. Y., \$55.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, May 23, 1857:

J. W. C., of Ky.; N. T., of Me.; J. B., of Texas; S. A. B., of L. I.; E. A. S., of Pa. (3 cases); A. T., of Mich.; J. L. S., of N. C.; C. B. S., of Mass.; E. T. M., of Mass.; I. H. C., of Ill.; C. H. T., of L. I.; D. C., of Pa.; J. A. D., of N. Y.; W. A. J., of La.; S. I., of L. I.; T. S., of Pa.; F. S., of N. Y.

Important Items.

COMPLETE SETS OF VOLUME XII EXHAUSTED.—We regret that we are no longer able to furnish complete sets of the present volume.

GIVE INTELLIGIBLE DIRECTIONS.—We often receive letters with money enclosed, requesting the paper sent for the amount of the enclosure but no name of State given, and often with the name of the post office also omitted.

Subscribers to the SCIENTIFIC AMERICAN who fail to get their papers regularly will oblige the publishers by stating their complaints in writing.

Terms of Advertising.

Twenty-five cents a line each insertion. We respectfully request that our patrons will make their advertisements as short as possible.

All advertisements must be paid for before inserting.

IMPORTANT TO INVENTORS.

THE UNDERSIGNED having had ELEVEN years' practical experience in soliciting PATENTS in this and foreign countries, beg to give notice that they continue to offer their services to all who may desire to secure Patents at home or abroad.

Over three thousand Letters Patent have been issued, whose papers were prepared at this Office, and on an average fifteen, or one-third of all the Patents issued each week, are on cases which are prepared at our Agency.

An able corps of Engineers, Examiners, Draughtsmen, and Specification writers are in constant employment, which renders us able to prepare applications on the shortest notice, while the experience of a long practice, and facilities which we possess, enable us to give the most correct counsel to inventors in regard to the patentability of inventions placed before us for examination.

Private consultations respecting the patentability of inventions are held free of charge, with inventors, at our office, from 9 A. M. until 4 P. M. Parties residing at a distance are informed that it is generally unnecessary for them to incur the expense of attending in person, as all the steps necessary to secure a patent can be arranged by letter.

In addition to the advantages which the long experience and great success of our firm in obtaining patents present to inventors, they are informed that all inventions patented through the expense of attending in person, at a regular time, in the SCIENTIFIC AMERICAN, this paper is read by not less than 100,000 persons every week, and enjoys a very wide spread and substantial influence.

Most of the patents obtained by Americans in foreign countries are secured through us; while it is well known that a very large proportion of all the patents applied for in the U. S., go through our agency.

MUNN & CO. American and Foreign Patent Attorneys, Principal Office 123 Fulton street, New York.

SHAFTING ON HAND and made to order by WM YOUNG, Practical Millwright and Machinist, No. 15 Vandewater st., N. Y.

TRUSTEES' SALE.—The remaining tools belonging to the estate of John Parsley will be sold at reduced prices, consisting in part of one 12, one 10, one 9, and four 8 ft. planers, three 3 ft., three 7, and one 6 ft. lathe, three hand lathes, one drill press, one gear cutter, patterns, belling, and sundry small tools generally used in a machine shop.

PARTNER WANTED.—To increase the sash, door, and blind sawing and planing business, with power, machinery and room to employ 20 hands. Sales beyond a question. Address W. C., Box 60, Sterling City, Ill. 1\*

PLANING AND MOLDING MILL FOR SALE.—Engine 25-horse power and 2 locomotive boilers, one planer and taper matcher, one molding machine and fixtures, worth \$750, one excellent clapboard planer, circular and sweep saws, three turning lathes, boring and baluster machines, &c.

A. WATKINS, Chronometer, Clock and Watch maker, No. 67 Strand, London, is prepared to furnish the patented escapement of Jacob Muma, of Hannover, Pa., at prices varying from \$175 to \$350.

SOMETHING USEFUL for Machinists and operatives of Machinery—Simmons' Decimal Chart, for finding the size of wheels and pulleys for any required number of revolutions per minute.

PLATINA POINTS FOR LIGHTNING RODS.—Our points have been in use for twenty years, and have given general satisfaction.

STEAM ENGINES, Circular Saw Mills, and other Machinery.—Improved engines and boilers, circular saw mills with cast steel mandrels and lever set, with strong iron head blocks—one sawyer cut 1,000 feet inch per hour.

MACHINERY.—S. C. HILLS, No. 12 Platt street, N. Y., dealer in Steam Engines, Boilers, Planers, Lathes, Chucks, Drills, Pumps, Mortising, Tenoning, and Sash Machines.

INGERSOLL'S IMPROVED HAY PRESS.—The best portable Hay Press in use for the purpose of baling Hay, Straw, Broom Corn, Husks, Hair, Hides, Moss, Hemp, Rags, Wool, Cotton, &c.

INVENTORS are invited to send descriptive circulars of their inventions to KELLOGG & DODGE, Dealers in machinery, &c., Charleston, S. C. 1\*

DR. D. BREED, late Assistant and acting Chief Examiner in the U. S. Patent Office, has established at Washington, D. C., a chemical laboratory for experiment and analysis, in order to test and improve processes of manufacture, and mechanical devices employed in the chemical arts.

ISAAC S. CLOUGH, Manufacturer and Dealer in patent Fly and Cockroach Traps, Yankee Match Saws, Furniture and Groove Polish, Rotary Knife Cleaner, Applicator and Parer, Water Coolers, &c., 166 Broadway, N. Y.

ATTENTION SAWYERS.—I am now Tonguing and Grooving 500 feet per hour with an attachment to a circular saw that was made by a carpenter in half a day.

MECHANIC'S GUIDE.—Contains tables of weights, measures, interest tables, specific gravities, weights of materials, weight of round and square iron, strength of materials, tables of brick-work, &c., &c., together with useful recipes, hints on mechanical drawing, and other useful matter.

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MONES' TREATISE ON AMERICAN ENGINEERING.—This unrivalled work on American Engineering is now complete, and those who wish to supply themselves with it must apply to the publishers soon.

READ ALL YE THAT ARE FOND OF FISHING.—I will send for \$1 a secret art of catching fish in any water as fast as you can pull them out.

WASHING MACHINE.—County and State rights for sale. A few experienced agents wanted. Apply to the inventor, JOSIAH MAYES, Cohoes, N. Y. 37 4\*

THE SUBSCRIBERS are constantly manufacturing and keep for sale, particularly adapted to the use of Machinists, Pattern Makers, and nearly all kinds of mechanics.

IRON FOUNDRY Machine Shop and Fixtures for sale or to rent. Location unexceptionable. For particulars address J. D. PAYNE, Watkins, N. Y. 38 3\*

\$1,000 FOR A VALUABLE consideration we have furnished to J. H. STAFFORD, Practical Chemist, 16 State st., N. Y., a selection of one hundred of our choicest Receipts for Cooking Baking, &c., the same being in constant use in our Hotel.

THE ABOVE RECEIPTS have been added to J. R. STAFFORD'S Family Receipt Book, which now contains more than 250 of the most valuable receipts that have ever been published.

THOSE SUPERIOR MACHINISTS TOOLS can only be obtained at CARPENTER & PLASS', No. 479 First avenue, N. Y.

COMMERCIAL AGENTS, able and honest men from New England or New York. A. W. HARRISON, Philadelphia, Pa. 36 13\*

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1000 YOUNG MEN can make over 100 per cent. sure profits. Apply (enclosing stamp) to M. J. COOK, A. B., Detroit, Mich. 37 2\*

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INGERSOLL'S IMPROVED HAY PRESS.—The best portable Hay Press in use for the purpose of baling Hay, Straw, Broom Corn, Husks, Hair, Hides, Moss, Hemp, Rags, Wool, Cotton, &c.

THE COMBINATION PATENT PORTABLE Steam Saw Mill.—This mill is fast coming into use in every section of this country, Canada, Cuba, and South America.

PUMPS.—BURNAP'S Patent Excelsior Pumps are acknowledged to be the best and most durable force pump in use, and are fast taking the place of all others for steamers, factories, breweries, &c.

WOODWORTH'S PATENT PLANING MACHINES of every kind and all prices. A large assortment on hand, and I am prepared to construct any machine to order from ten days to two weeks.

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BRECKENRIDGE COAL OILS.—The Breckenridge Co. are now prepared to supply these oils for lubricating and burning purposes, in quantities to suit.

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SAWS.—ROE & CO.'S Patent Ground Saws, Planing, Trowels, &c., can be had wholesale and retail, at the principal hardware stores.

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TO INVENTORS AND MANUFACTURERS.—Rooms with power, for the exhibition of machinery, can be had in the Depot Buildings, corner of Elm and Franklin sts.

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MACHINE BELTING, Steam Packing, Engine Hose.—The superiority of these articles manufactured of vulcanized rubber is established.

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BOILER INCrustATIONS PREVENTED.—A simple and cheap condenser manufactured by Wm. Burdon, 102 Front st., Brooklyn, will take every particle of lime or salt out of the water.

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LAP-WELDED IRON BOILER TUBES.—Prosser's Patent.—Every article necessary to drill the tube-plates, and set the tubes in the best manner.

50 STEAM ENGINES.—From 3 to 40-horse power also portable engines and boilers; they are first class engines, and will be sold cheap for cash.

GOLD QUARTZ MILLS of the most improved construction; will crush more quartz and do it finer than any machine now in use.

OIL! OIL! OIL!—For railroads, steamers, and for machinery and burning—Pease's Improved Machinery and Burning Oil will save fifty per cent., and will not gum.

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