

TO CORRESPONDENTS.

C. C. of Mass.—Your statements in regard to the discovery of the daguerreotype are founded in error. The following explanation will enable you to see how much credit is due to each of the distinguished names associated with it. Niepce ascertained that when a surface was covered with resin and exposed to the solar rays, the portion on which the bright light fell became much more soluble than those parts which had been influenced by the weaker rays, and could, consequently, be dissolved off before the other portion; thus an imperfect picture could be formed. Daguerre ascertained that several compounds of silver were most easily affected by the action of the light; those parts upon which the light fell brightly being quickly decomposed, while those portions protected by the shadow remained untouched. He also discovered a method of fixing the image thus drawn. Niepce has done much to advance the photographic science, and is entitled to much credit, but not to all.

J. G. of Ill.—Your theory of anchor ice may be correct, but other views on the same subject have also been maintained with apparently good proof, and were published in back numbers of the Sci. Am.

M. D. of Ind.—The tube of two feet in diameter to burst the cork must be just as high as one of an inch in diameter—the pressure is according to the height, not the diameter.

S. H. H. of Ohio—You can use the vulcanized india rubber for any kind of valves. The method of manufacturing it is secured by patent.

C. W. of Va.—There are instruments for testing the draft of plows; but we are not acquainted with any person who manufactures them.

M. B. of N. Y.—It makes no difference where you belt off from the main shaft; you will require the same amount of power to drive the run of stones; let the belt be put on at the middle or end of the shaft.

A. M. of N. J.—Your patent fee will be \$300 unless you have resided one year in the United States, and declared your intention of becoming a citizen. In that case the fee will be the same as that of a citizen. If your invention is so valuable it will not be easy for you to keep it secret.

Ball, Autman & Co., Canton, O.—saw last fall an account somewhere of a mowing match to come off some time the coming harvest in the State of Massachusetts, at which \$1,000 were offered as a premium for the best mower. If there is to be such a trial they want to attend it, with a machine. They wish information on the subject.

I. V. of Ohio—The subscription price of the American Journal of Science and Art is \$5. Messrs. Putnam & Co are at No. 321 Broadway.

P. Lancaster, Le Clair, Mich., wishes to correspond with a manufacturer of malleable castings. He also wishes to get some Remington gun barrels.

W. O. H. of Tenn.—A well constructed wooden model will answer as well as a metal one. We answered your inquiries about the wind engine by letter a few days since.

W. M. C. of Tenn.—Benzole is dearer than coal gas made in our cities. The cost of the apparatus can be obtained by writing to A. M. Mace, Springfield, Mass.

J. H. C. of Ohio—Use shellac dissolved in alcohol with your plaster of paris, for cementing the metallic ring; this will make it air-tight, and may answer your purpose.

Isaac W. Lewis, of Greensburg, Md., wishes to purchase a flour barrel stove machine.

L. M. C. of Boston.—Correspondents who refuse to sign their names to their letters are not entitled to any attention, and will not receive any at our hands.

J. S. of N. Y.—You did not read the note on making cement roofs carefully.

G. T. of Iowa.—We do not know where you can obtain a machine for drawing fret lead for stained window glass.

T. J. C. of Mass.—We cannot give you the information desired respecting the dealers in pure ambergris and essential oils. The extract of ambergris to which you allude must be some adulterated product; we have never seen a pure extract of this substance.

H. K. of Boston.—We have not been able to obtain a correct idea of your theory from the article you present, ed. Write it over again; make it more clear, and about the same length, and we may publish it.

E. S. W. of Ill.—We cannot advise you to employ coal tar for painting the coarse boards of your barn, it has an offensive smell, and does not look well. We advise you to use a cheap oil paint.

B. H. of N. Y.—A cement made of the white of eggs, lime, and grated cheese, will unite the edges of broken glass. Small high pressure engines work more economical without than with a condenser. Water gauges cost from \$5 upwards, according to their size and workmanship.

S. W. W. of Wis.—The ore which you have sent us appears to be sulphuret of lead. Roast some of it slowly, then grind and wash it, to remove the earthy matter, and then melt it in a crucible, and you will thus find out its value.

A. D. C. of Ind.—We thank you for your response to our letter of the 19th ult. It is satisfactory.

W. D. Jr., of Phila.—It requires 28 cubic inches of water at 50 degs. to condense a cubic inch of water raised in to steam—a cubic foot of steam at atmospheric pressure a cubic foot of steam, at 80 lbs. pressure, will require about five pints of water to condense it.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, June 7, 1856—

W. & P., of Ill., \$30; W. S., of Ga., \$30; R. D. A. & Co., of Miss., \$30; S. W., of Ind., \$55; J. H. F., of Vt., \$30; T. B., of Conn., \$30; E. C. C., of Mass., \$30; A. R. M., of Conn., \$30; A. P. R., of Va., \$30; D. D. A., of Mass., \$25; F. & W., of Conn., \$30; E. B. McC., of Iowa, \$30; J. H., of Ky., \$15; J. T. D., of N. Y., \$20; J. C., of Conn., \$20; A. G. M. F., of N. Y., \$30; F. J. F., of N. Y., \$30; R. M. D., of Ind., \$25; H. & H., of Mass., \$30; E. S. W., of Ill., \$55; A. B., of Mass., \$50; D. B., of Conn., \$30; J. M., of N. J., \$10; S. N., of Conn., \$25; S. D. P., of Mass., \$25; J. K. D., of N. Y., \$25; W. & B., of O., \$30; W. M. & B., of N. Y., \$27; G. H. B., of N. Y., \$25; H. H. E., of Conn., \$27; J. F. F., of Mass., \$25; W. W. L., of Mass., \$10; J. L., of N. Y., \$30; J. H., of N. Y., \$20; R. & G. Me., \$30; G. W. O., of Ind., \$30; W. & E., of Del., \$30; J. D., of O., \$25; H. H., of Miss., \$30; O. P., of N. Y., \$30; P. C. C., of N. H., \$30; J. W., of N. Y., \$30; T. G. W., of N. Y., \$170.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, June 7—

N. R., of N. Y., (3 cases); R. M. D., of Ind.; J. K. D. of

N. Y.; S. N., of N. Y.; S. D. P., of Mass.; P. C. C., of N. H.; R. W., of Conn.; H. H. E., of Conn.; J. L., of N. Y.; G. H. B., of N. Y.; W. M. & B., of N. Y.; J. D., of O.; J. F. F., of Mass.; J. W. of N. Y., (3 cases); R. B., of Vt.; F. & W., of Conn.; D. D. A., of Mass.; C. W. G., of Conn.; G. N. B., of Cal.

Important Items.

TO THE UNFORTUNATE.—We are no longer able to supply the following back numbers of the present volume Nos. 6, 12, 14, 15, 17, 18, 19, 21, 22, 23, 24, 25, 27, 28, 29, 30, 34, 35, and 37. Such numbers as we have to furnish, are gratuitously supplied to such subscribers as failed to receive them; and we would take occasion to state, that any person failing to receive their paper regularly, will confer a favor by notifying us of the fact. Missing numbers should be ordered early, to insure their receipt, as an entire edition is often exhausted within ten days after the date of publication.

MODELS.—We shall esteem it a great favor if inventors will always attach their names to such models as they send us. It will save us much trouble, and prevent the liability of their being mislaid.

PATENT CLAIMS.—Persons desiring the claim 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 date of patent when known, and enclosing \$1 as fees for copying.

RECEIPTS.—When money is paid at the office for subscription, a receipt for it will always be given; but when subscribers remit their money by mail, they may consider the arrival of the first paper a bona fide acknowledgment of the receipt of their funds.

Literary Notices.

THE SOUTHERN QUARTERLY REVIEW.—Vol. 1, New Series. E. H. Brittan & Co., publishers, Columbia, S. C. The number before us of this distinguished review contains several very able articles. Theor of the Beautiful, The Six Days of Creation, Slavery and Freedom, the Nebular Hypothesis, Works of William Paley, Physical Geography of the Sea, and Barnard on American Colleges, are the leading papers in the number. The terms of this Review are \$5 per annum.

THE INVENTORS AND PATENTEES' GUIDE.—This is a neat little pocket volume, containing the U. S. Patent Laws, with the rules of procedure at the Patent Office, forms, instructions, &c. Also a list of the counties of each State, names of principal cities, with population, &c. To Inventors and owners of patents this work will prove very valuable. Published at Lancaster, Pa. by the author, J. Franklin Reigart.

LINDA; OR, THE YOUNG PILOT.—By Mrs. Caroline Lee Hentz. This is an interesting tale of Southern life and society. It is full of vivacity and stirring interest. The author enjoys a very extensive and substantial literary reputation. She is the writer of several most excellent works. J. B. Peterson, publisher, Philadelphia, Pa.

BLACKWOOD'S MAGAZINE.—Old Ebony for this month contains a luminous article on England's policy in France, another on the Scot Abroad—as the man of the sword, letters from the banks of the Irwaddie, an essay on the Art of Travel, &c. Blackwood is always rich and racy. Published by L. Scott & Co., 54 Gold st., N. Y.

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IMPORTANT TO INVENTORS.

THE UNDERSIGNED having had TEN 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, Draftsmen, 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 few others possess, we are able 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. A rough sketch and description of the improvement should be first forwarded, which we will examine and give an opinion as to patentability, without charge. Models and fees can be sent with safety from any part of the country by express. In this respect New York is more accessible than any other city in our country.

Circulars of information will be sent free of postage to any one wishing to learn the preliminary steps towards making an application.

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 our establishment, are noticed, at the proper time, in the SCIENTIFIC AMERICAN. This paper is read by not less than 100,000 persons every week, and enjoys a very wide 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.

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TOOLS, &c., FOR SALE VERY LOW.—One large slide swing lathe, 50 in., two self-acting drilling machines, one self-acting boring bar, and other tools; also a large lot of gearing and other patents. See advertisement in T. L. & C. FOUNDRY, Foot of Wayne st., Jersey City.

GROVER'S PATENT WIRE CUTTERS.—A view of which is given in No. 40, this paper, are for sale wholesale and retail by E. D. & G. Draper, Hopedale, Milford, Mass. We are also sole agents for the sale of Dutchess's Patent Temples, Perry's Patent Parallel Shuttle Motion, Hayden & Wyllys's Patent Drawing Regulators or Eveners, Thompson's Patent Oilers, &c.

GEO. WHEELER & CO., General Negotiating Agents for the sale of Patents, new discoveries, &c. Office 324 Broadway, N. Y. N. B. Stuck patents, &c. solicited.

FOR SALE.—On reasonable terms, the entire Patent of a Gas Regulator, issued April, 1855. To persons acquainted with the management of patents it would be a valuable investment. Address F. H. M. & B. Co., Trenton, N. J.

THE MORELAND MORTISING MACHINE
Company.—The patentee, Mr. Moreland, has associated himself in partnership with a number of gentlemen in this city, and the Company are now engaged in the manufacture of his Patent Boring and Mortising Machines; and after the 15th of June next they will be prepared to furnish machines of the best quality, being made of iron and steel, and are extremely strong, heavy, simple, durable, and not liable to get out of order. This machine is well adapted for railroad car building, reaping and thrashing machines, also for wagon and carriage hubs of every description. It works two chisels, that act independent of each other, which can be set to give the required taper to the mortise to suit the spoke, no trimming being necessary. The manufacture of this machine has been retarded by Mr. Moreland losing all his machines, tools, patterns, &c., by fire, orders and communications relative to said machine, from April 4, 1855, have not been received by proper parties. All communications to receive attention should now be addressed to the Moreland Mortising Machine Co., Adrian, Mich. 40 3*

WANTED.—A partner with a capital of \$3000 or \$4000 in cash or machinery, to manufacture agricultural implements. I will furnish two valuable patents of my own invention: well tested. For further information address D. W. HUGHES, New London, Mo. 40 2*

WANTED BY A YOUNG MAN.—A situation either as mechanical draftsman or machinist. Understands drawing up specifications of machinery. Permanent situation preferred. Good references given. No objection to the country. Please address HERMAN MEISSNER, P. O. Box 3028, N. Y. 1*

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This is an improved Steam Engine for which Letters Patent were granted to John A. Reed, of New York, Jan. 18 56. The nature of the improvement consists in the increase of power about 20 per cent., and reducing the weight of the engine one half. The saving of fuel is effected by letting the steam in on both sides of the cylinder; doubling the size of the port, and balancing the pressure, removing the friction and weight of the slide valves, eccentrics, cross heads, connecting rods, &c. The exceeding simplicity of the engine renders it an admirable engine for small engines, and when placed upon the boiler with wheels it is portable though effective. These engines received the First Prize Medal at the Great Exhibition in Paris. There are about seventy-five of them now in operation, all giving great satisfaction.

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BIRMINGHAM IRON FOUNDRY.—Manufacturers of Iron and Composition Castings, Chilled Rolls, M. J. Gearing, Fan Blowers, Trip Hammers, Shafting, Shafts, Pumps, &c. &c. India Rubber Calenders, Grinding and Cutting Machines, Turbine and Centrifugal Water Wheels. Also, contracts for the Great Overshot Wood Wheel. Address SHELTON BASSETT, Pres't., Birmingham, Conn. 132 eoww

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STONE SAWING MACHINE.—The patent for a superior machine for sawing stone in tapered shafts, monuments, &c., is now offered for cash, or its equivalent. For particulars, address (post-paid) A. F. WARD, Patentee, Louisville, Ky. 37 5*

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VERTICAL STEAM ENGINE and Boiler for sale at a bargain. The Engine is nearly new, and well finished. The cylinder is 9 inches; the fly wheel is a band wheel 5 feet in diameter, face 14 inches, turned off, weight 1500 lbs. The boiler is 20 feet long, 42 inches in diameter, 1 five 17 inches, well braced wrought-iron heads; it is very strong, and has been in use about six months; is about 15-horse power. Cost \$1200, will be sold for \$675 cash; delivered on ship board. Apply to MUNN & CO. at this office.

MACHINISTS' TOOLS.—Meriden Machine Co. have on hand at their New York Office, 15 Gold street, a great variety of Machinists' Tools, Hand and Power Punching Presses, Forcing Pumps, Machine Belting, &c., all of the best quality. Factory West Meriden, Conn. 32 13*

1856.—WOODWORTH'S PATENT Planing, Tonguing and Grooving Machines. The subscriber is constantly manufacturing and has now for sale the best assortment of these unrivalled machines to be found in the United States. Prices from \$85 to \$1450. Rights for sale in all the unoccupied Towns in New York and Northern Pennsylvania, JOHN GIBSON, Planing Mills, Albany, N. Y. 30 3m*

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NORCROSS ROTARY PLANING MACHINE.—The Supreme Court of the U. S., at the Term of 1853 and 1854, having decided that the patent granted to Nicholas G. Norcross, of date Feb. 12, 1850, for a Rotary Planing Machine for Planing Boards and Planks is not an infringement of the Woodworth Patent. Rights to use the N. G. Norcross's patented machine can be purchased on application to N. G. NORCROSS, 208 Broadway, New York. Office for sale of rights at 208 Broadway, New York Boston, 27 State street, and Lowell, Mass. 19 6m*

GRAIN MILLS.—EDWARD HARRISON, of New Haven, Conn., has on hand for sale, and is constantly manufacturing to order, a great variety of his improved Flour and Grain Mills, including Bolting Machinery, Elevators, complete with Mills ready for use. Orders addressed as above to the patentee, who is the sole manufacturer, will be supplied with the latest improvements. Cut sent to applications, and all mills warranted to give satisfaction. 29 ft

NEW HAVEN MFG. CO.—Machinists' Tools, Iron Planers, Engine and Hand Lathes, Drills, Bolt Cutters, Gear Cutters, Chucks, &c., on hand and finishing. These Tools are of superior quality, and are for sale for cash or approved paper. For cuts & full description and prices, address, "New Haven Manufacturing Co New Haven, Conn. 19 ft

AGENCY FOR THE PURCHASE AND SALE of valuable patents and inventions, T. H. LEAVITT, No. 1 Phoenix Buildings, Boston. None but matters of real merit and utility will receive any attention. Circulars containing further information may be had on application. 29 12*