



H. D. S.: of N. Y.—You can melt gold and silver in a crucible on a fire which has a good draft, or by the use of a bellows in a common furnace.

A. B. McC., of Ohio.—To temper steel as hard as a file, heat it in molten lead until it becomes red hot, then plunge it into strong cold brine.

O. S. O., of N. Y.—Black lead mixed with oil and tallow makes a very excellent lubricator for carriage axles.

N. A. P., of N. C.—Copal varnish can be colored to any shade of brown by dragon's blood. To render it very dark, add a little black Japa varnish.

J. B. S., of Ill.—The point on which Singer, Wheeler & Wilson, &c., pay tribute to Howe, is on the combination of the needle and shuttle.

D. McK., of C. W.—The Goodyear India-rubber Co., corner of Nassau-street and Maiden-lane, this city, have india-rubber gas-holders for sale, and can furnish you any size you may want.

J. C. E., of Pa.—A temperature of from 65° to 70° is said to be the best for cream to be kept when churning.

W. S., of C. W.—To coat iron with copper, clean it perfectly from oxyd by an acid and clean water, then place it in a Smees's battery containing a strong solution of sulphate of copper.

J. C., of Pa.—The method which you propose for enabling the Atlantic cable to sink gently, by the use of buoys secured to it, is not new; it was tried in some experiments with the old cable, but was found to be of no avail.

W. P. W., of N. Y.—A strong decoction of logwood and yellow oak bark, or butternut bark, mixed together, will make a stain to imitate walnut on basswood.

W. H. A., of Iowa.—The simple combination of a reaper and mower is public property, and free to Manny, yourself, and others.

J. L., of N. Y.—The article to which you refer did not relate to the cause of incrustation in boilers (which has been explained in former volumes), but to the choking up of a passage at one side of the boiler.

S. F., of N. Y.—The specimen which you have sent us of alkaline silicates, mixed with fluor-spar, is very hard, but it is too brittle to be employed as a roofing cement.

H. D. B., of Md.—We do not know of a better aurist than Dr. J. Henry Clark, of 286 Fourth-street (opposite Washington Parade Ground), this city.

L. J. B., of Mich.—Water can be raised by a common "lifting pump" from wells 100 feet in depth.

W. H. W., of Conn.—An iron walking staff with a glass head will never answer for a lightning conductor, or as a protective during thunder storms.

J. R. H., of Wis.—For the cure of corns we have given many receipts. Sir H. Davy's was as follows:—Potash, two parts; salt sorerl, one part; each in fine powder.

TO MAKE A STORM GLASS.—A correspondent kindly sends us these instructions:—Get a glass tube about a foot long and an inch in diameter, sealed at one end, and furnished with a brass cap at the other, with a small aperture; the tube is then filled with the following solution:—Camphor, 2½ drams; nitrate of potash, 38 grains; nitrate of ammonia, 38 grains; water, 9 drams; rectified spirits of wine, 11 drams.

M. J., of Ala.—You will find the following a good blacking for boots and shoes:—Rub well together one pound of ivory black in fine powder, three-quarters of a pound of molasses, and two ounces of sweet oil.

L. A. C., of Mass.—The washerwomen of Holland and Belgium, so proverbially clean, and who get up their linen so beautifully white, use refined borax as a washing powder instead of soda, in the proportion of a large handful of borax powder to about ten gallons of boiling water.

L. A. P., of Ill.—The following is a good trap for snails, which are particularly fond of bran; if a little is spread on the ground, and covered over with a few cabbage leaves or tiles, they will congregate under them, and by making a morning examination, and destroying them, the numbers will be greatly reduced.

F. K. S., of Conn.—The French chemist, Thilorier, became famous through his experiments in liquifying and solidifying the ordinary carbonic-acid gas, which may be generated very readily by pouring weak muriatic acid upon either chalk or marble.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, July 23, 1859:—

- O. G., of Ill., \$25; E. G., of Ky., \$30; J. H. S., of N. Y., \$30; A. M. M., of Mass., \$35; W. A. McD., of N. Y., \$55; E. & R., of Mich., \$30; W. McE., of Ind., \$25; R. H., of Vt., \$24; S. A. C., of Ill., \$14; J. F. S., of Pa., \$15; J. M., of Ill., \$25; T. H., of N. Y., \$25; S. B., of Va., \$25; G. W. C., of Mich., \$30; H. E., of N. Y., \$55; J. McP., of N. Y., \$30; U. P., of Conn., \$140; S. & R., of Mo., \$25; J. W., of Mass., \$30; G. & S., of Mich., \$25; K. & M., of Vt., \$32; S. L. O., of Conn., \$30; W. R. S., of N. Y., \$30; E. D., of Ark., \$35; V. H., of N. Y., \$30; J. W. H., of N. C., \$25; W. H. R., of N. Y., \$25; C. W. B., of Mass., \$30; D. D., of N. Y., \$95; J. M., of N. Y., \$25; D. P., of N. Y., \$29; D. S., of N. Y., \$25; A. T., of Conn., \$30; N. E. R., of N. Y., \$40; E. G. C., of N. Y., \$30; R. H. & A. D. M., of N. Y., \$250; C. R. H., of Wis., \$30; T. C., of Mass., \$30; S. & L., of N. Y., \$10; L. E., of Conn., \$40; H. G. T., of Mass., \$90; S. & E., of N. Y., \$25; H. S. L., of Ill., \$30; E. D. & Z. W. L., of Ga., \$25; M. R., of N. Y., \$200; W. G., of N. Y., \$30; J. S., of N. Y., \$25.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, July 23, 1859:

- J. T. S., of Pa.; I. D., of Mass.; I. M., of N. Y.; O. S., of N. Y.; T. H., of N. Y.; E. D., of Ark.; S. B., of Va.; N. E. R., of N. Y.; L. S. U., of Tenn.; D. S., of N. Y.; W. McE., of Ind.; A. M. M., of Mass.; T. C., of Mass.; J. W. H., of N. C.; M. & S., of Texas; D. C. G., of Conn.; O. E. W., of Pa.; H. E., of N. Y.; S. A. C., of Ill.; G. & S., of Mich.; O. G., of Ill.; C. R. H., of Wis.; E. G. C., of N. Y.; S. & L., of N. Y.; E. D. & Z. W. L., of Ga.; K. & M., of Vt.; J. S., of N. Y.

Literary Notices.

HISTORY OF THE CITY OF NEW YORK. By Mary L. Booth. Clark & Meeker, No. 40 Walker-street, New York.

Strange as it may appear to the denizens of the Old World who accumulate the histories of cities founded in the mythical times of barbaric chieftainism, and who gather their records in bundles of a century each, our juvenile city, of which the locality has been known to white men only for 250 years, has achieved for itself "a strange, eventful history." Discovered in 1699 by Henry Hudson, an Englishman, in the service of a company of Dutch merchants, and subsequently colonized by Hollanders, many of whose primitive customs still remain among us, it was afterwards conquered by the English, and made free by the Revolution. We have had exciting scenes enacted in our streets, and wondrous stories of domestic pathos told around our fire-sides. The relics of these things are quickly passing away before the all-conquering march of bricks and mortar, and our only method of preserving them is on the printed page of some book like the one before us. This tells the history of the city in a truly pleasing strain, with a Knickerbockerish simplicity that is as charming as it is true, and has a quaintness which is peculiarly and happily its own. To all who come to see what has been achieved in this western world in a short space of time upon American soil, this work will be invaluable, and no one who loves his native city, or is proud of the metropolis of the western world, should hesitate to transfer it from the booksellers' shelves to his own.

PRACTICAL COMPANION FOR THE TIN, SHEET-IRON AND COPPER SMITH.

This is the title of a neat little volume by Leroy J. Blinn, and published in Detroit by Barnes, French & War. It contains rules, illustrated with diagrams, for describing various kinds of patterns used by workers in sheet-metal. Rules for cutting out elbows of sheet-iron, for cutting ovals, covers of cones, &c., are found in this volume. It is a very useful little work. See advertisement in another column.

BLACKWOOD'S MAGAZINE. Published by Leonard Scott & Co., No. 54 Gold-street, this city. The No. for this month is the first of a new volume, and is full of interesting matter.

History of the Scientific American and Important Information to Patentees.

We have printed a supplementary edition of the SCIENTIFIC AMERICAN, in which there is a history of its rise and progress, with illustrations of the building, externally and internally, showing the spacious rooms in which our immense patent business is conducted, and with life-like representations of the artists, engineers and specification writers at their daily labors. The same paper contains information on the many intricate points arising in patent law and practice, and comprises the best popular treatise on the subject ever published; it should be in the hands of all who are interested either in procuring, managing or using patented inventions. The legal information contained in this paper is the result of FOURTEEN YEARS' experience as patent solicitors, and it cannot be found in any other treatise on patent law. It also contains information in regard to Foreign Patents and Extensions. It is published in octavo form, sixteen pages, and mailed upon receipt of two three-cent stamps. Address MUNN & Co., publishers of the SCIENTIFIC AMERICAN, New York City.

RECEIPTS.—When money is paid at the office for subscriptions, 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 our reception of their funds.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within the last fifteen 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 fee for copying.

BINDING.—We would suggest to those of our patrons who have the last volume of the SCIENTIFIC AMERICAN complete, and desire to have it bound, that they had better send their numbers to this office, and have them bound in a uniform style with their previous volumes. Price of binding, 75 cents.

PRESERVE YOUR NUMBERS.—We often hear persons who have taken the SCIENTIFIC AMERICAN for the last dozen years, and preserved all the numbers since they commenced it, lamenting that they cannot procure the earlier volumes so that they may have the work complete. A few years hence there will be many who will regret they had not preserved the early numbers of the NEW SERIES; and that we may fulfill our whole duty to our patrons in this respect, we give them this early warning in regard to the first numbers of this volume. If the reader does not wish the numbers to bind for himself, undoubtedly, before the present year closes, the numbers can be sold at an advance above the cost, while he will have the benefit of a weekly perusal of the numbers which will cost him nothing. We counsel all to preserve their numbers.

Rates of Advertising

Thirty cents per line for each and every insertion, payable in advance. To enable all to understand how to calculate the amount they must send when they wish advertisements published, we will explain that ten words average one line. Engravings will not be admitted into our advertising columns; and, as heretofore, the publisher's reserve to themselves the right to reject any advertisement sent for publication.

YOUR NAME IN GILT LETTERS (ADHESIVE).

Y Size 1 inch, one cent each; 2 inches, two cents; 3 inches, three cents, &c., with red stamp to pay return postage. Grand Chance for Agents!—12 Alphabets, one inch, for \$1; two inch, 8 for \$1; three inch, 5 for \$1—assorted colors. Address GEORGE K. SNOW, Boston, Mass. 5 3t

SENSATION BOOK, BUT TRUE!—"WRECKS

AND RESCUES." By an Early Member of the Board. 255 pp. 12mo, fine paper, with 4 engravings. Muslin, 75 cents; gilt, \$1, by mail, post-paid. Containing the history of some of the most interesting and deeply touching cases in the earlier annals of the American People's Guardian Society. Address "American Female Guardian Society," No. 29 East 23rd-street, New York. 5 1t

GENERAL AGENCY, TORONTO.—WILLIAM

LYON MACKENZIE, Editor "Weekly Message," having resigned his seat in the Canada Legislature, is prepared to act as an Agent in such business matters as can be conveniently transacted by him for persons in the United States. Address, "Message Office, Toronto, Canada."

[From the New York Daily Tribune, July 12.] "Whoever wishes his business to be attended to with energy, industry and fidelity can entrust it to Mr. Mackenzie." 5 1t

THE TWELFTH ANNUAL EXHIBITION OF

the Maryland Institute for the Promotion of the Mechanic Arts. The Managers of the Maryland Institute announce another of their popular Exhibitions of Works of Art and Industry, to be opened in the great Hall of the Institute, in the city of Baltimore, on TUESDAY THE 4TH DAY OF OCTOBER, 1859, and continue for four weeks. Manufacturers, Mechanics, Artists, Inventors, and all others desiring to display their respective productions, are cordially invited to contribute. Circulars containing particulars will be furnished by application to JOHN S. SELBY, Actuary, who will also promptly give any desired information on the subject. Those who desire to become depositors are respectfully requested to make early application for space, that the committee having charge of the exhibition may make their arrangements understandingly. SAME HINDES, 5 2t Chairman of Committee on Exhibition.

TO INVENTORS, MACHINISTS AND MANUFACTURERS.

We are prepared to address Circulars, Handbills, Envelopes, Wrappers, &c., for any parties, to such persons in part of the country as would be most likely to require their several improvements and wares; and probably this is the most effectual and at the same time economical means which can be used to promote the interests of trade generally. Our lists are very extensive, and comprise Civil Engineers, Machinists, Blacksmiths, Carpenters, Carriage-makers, Agricultural Implement Dealers, Grist-mills, Saw-mills, Brickmakers, Builders, Hardware Dealers, Iron-founders, Printers, Painters, Druggists, Copper-smiths, Glass Manufacturers, Distillers, Bleacheries, Engravers, Bookbinders, Millwrights, Mining Companies, Boot and Shoe Dealers, Cotton and Wool Manufacturers, Paper-makers, Banks, Insurance Companies, Hotels, Country Stores, Patent Agents, Nurserymen, Tanners and Curriers, Brewers and Malsters, Stove, Range and Furnace Dealers, Plumbers, Soap-makers, Cabinet-makers, Upholsters, Steam-engine Builders.—Besides a complete list of Master Mechanics, and Superintendents on all the Railroads in the United States, and numerous other valuable and complete lists. Terms, \$6 per 1,000. LEAVITT & CO., 5 1t No. 37 Park-row (over Scientific American Office), New York.

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ourselves of every additional improvement to the Magic Lantern, and have always on hand a large assortment of beautifully executed slides, elucidating every branch of popular knowledge, to which we invite the attention of Teachers, Superintendents of Sunday Schools, and Public Lecturers. Our priced and descriptive catalogue, with illustrations of the Magic Lantern, list of Slides, &c., furnished gratis and sent by mail, free of charge, to all parts of the United States. CALLISTER & BRO., 5 1t No. 728 Chestnut-street, Philadelphia.

WANTED—Nos. 2, 3, 5, 6, 8, 10, 13 and 15 of

Vol. V., and No. 3 of Vol. VI., SCIENTIFIC AMERICAN. Also, Vol. I., II., III. and IV. of the same, either bound or in Nos. Persons having the whole or any portion of the above will please address the subscriber, giving terms. JOHN P. NESSLE, Albany, N. Y. 5 1t

TO REFINERS OF COAL OIL.—I HAVE ON

hand a dam working an excellent article of Crude Oil, which will be sold on fair terms. Address C. DICKET, 5 0t Coshocton, Ohio.

PATENT EXTENSIONS.—ALL PATENTS FOR Inventions, granted by the United States during the year 1855, will expire by their own limitations during the current year (1856) UNLESS EXTENDED ACCORDING TO LAW.

BLANCHARD'S INVENTION FOR GENERATING STEAM.—This improvement can be connected with boilers of every class and description at a very small expense; and with this improvement their power will be more than doubled with the same amount of fuel, as has been clearly demonstrated.

TO INVENTORS, PATENTEES AND MANUFACTURERS.—Geo. Kennedy, Pittsburgh, Agent for the sale of Patent Rights and the exhibition and sale of New Inventions and Patent Goods generally, invites the attention of all parties interested to the facilities thus offered for introducing and disposing of their productions.

INGOT COPPER, SPECTER, BANCA TIN, LEAD, Antimony, Babbitt Metal, Mount Hope Cut Nails, Ames' Shovels and Spades, for sale by JOHN W. QUINCY & CO., No. 29 William-st., New York.

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APPEALS BEFORE THE JUDGES OF THE U. S. District Court, from the final decisions of the Patent Office, in Rejected Cases, Interferences, &c., are prosecuted by the undersigned on moderate terms. MUNN & CO., Solicitors of Patents, No. 37 Park-row (Scientific American Office), New York.

PATENT SUBMARINE ELECTRIC SAFETY-FUSE TRAIN.—For Military and Civil purposes. It travels a mile in four seconds under water or ground; leaves no fire or smoke behind. For sale at No. 165 Broadway, New York. Inquire of E. GOMEZ.

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GREAT CURIOSITY.—WE HAVE ONE OF THE greatest curiosities and most valuable inventions in the known world, for which we want agents everywhere. Full particulars sent free. SHAW & CLARK, Biddeford, Maine.

MARINE RAILWAY.—WANTED, A COMPETENT man, who is able to invest a few hundred dollars in a Marine Railway, and take the entire charge of the same. The works are nearly completed, and are situated in a flourishing city in Florida; this is a favorable opportunity for anyone desiring to engage in the business, and there would be plenty of business in the way of repairing and building vessels. For particulars in regard to location and prospects, inquire of J. HOLMES, No. 88 Wall-street, New York.

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THE UNDERSIGNED, WHO HAS A STORE for the sale of machinery and a machine shop in the best part of London, is prepared to undertake agencies for the sale (by wholesale or retail) of novel American Agricultural, Domestic, and other machines and apparatus, and to let iron and steam power to proprietors of patent machinery who wish to set up machines in London to show them in action previous to disposing of their patent rights in Europe. Business transacted in the French and German languages. Reference—L. P. POZIER, Esq., New York Rubber Co., No. 45 Liberty-street, New York. WELBURN WILLIAMSON, No. 133 High Holborn, London, England.

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PAGE'S LIME KILN (PATENTED 1854-57-58) Will burn 100 lbs. lime with 2 1/2 cords of wood or 1 1/2 tons of coal in 24 hours. Coal not mixed with stone. It will burn all limes of chalk or shell. Rights for sale by C. D. PAGE, Patentee, Rochester, N. Y.

UNITED STATES ARMY, SPRINGFIELD, May 3, 1858.—F. K. SMILEY, Esq.—Dear Sir: Having used your Emery and Crocus Cloth for about three years, we can recommend it as being superior, more uniform and durable than any other kind that we have used at this Army, being an excellent article for finishing both iron and brass. Yours respectfully, E. J. ALLIN, Master Armorer. We, the undersigned, cheerfully concur in the above statement. MAJOR P. V. HAZEN, Frankford Arsenal, Pa. J. G. BENTON, Captain Ordnance, West Point. Manufacturer, Amherst, Mass. Send for samples. Sold by S. C. HILLS, No. 12 Platt-street, New York.

CROSSETT'S PATENT STAVE CUTTER.—PATENTED July 1, 1844; re-issued March 2, 1853; renewed and extended June 20, 1858.—The above mentioned machine is warranted to cut more and better staves than any other machine in the 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. Offenders 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.

THE AUBIN VILLAGE GAS WORKS WERE erected last year by gas companies in several States and in Canada. The success attending these works has already led to the erection of one city and one village work this season, and secured three village works for immediate erection, and so nearly secured five more that they may be relied on before August next. For reference apply to the Aubin Company, No. 44 State-street, Albany, N. Y.

CALIFORNIA AGENCY FOR PATENTS.—WETHERED & TIFFANY, San Francisco, will attend to the sale of patent rights for the Pacific coast. References: Messrs. Tiffany & Co., New York; Wethered, Brothers, Baltimore; George W. Bond & Co., Boston.

TO GASKMAKERS.—THE SUBSCRIBER, INVENTOR and Patentee of a new method of purifying gas by means of water alone, an improvement, the utility and simplicity of which, with the great saving in expense, recommends itself to all gaskmakers, and must be adopted by all as the only proper way to purify gas, is now ready to negotiate for individual, town, city, county, or State rights for the use of his patent. Address AURELIUS DICKINSON, Claremont, N. H.

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MESSIEURS LES INVENTEURS—AVIS IMPORTANT.—Les inventeurs non familiers a une langue Anglaise, et qui preferent 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 et considerees. MUNN & CO., Scientific American Office, No. 37 Park-row, New York.

OIL! OIL! OIL!—FOR RAILROADS, STEAMERS and for Machinery and Burning. Pease's Improved Machinery and Burner 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 to 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, pronounces it "superior to any other they have ever used for machinery." For sale only by the Inventor and Manufacturer, F. S. PEASE, No. 61 Main-street, Buffalo, N. Y. N. B.—Reliable orders filled for any part of the United States and Europe.

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 W. M. BURDON, No. 102 Front-street, Brooklyn, N. Y.

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