TO CORRESPONDENTS.

D. H. B,, of Mass.—Your new fertilizer is invaluable if it is as effective and cheap as you have stated. You are doing a great work for the advacement of Agricultural science.

J. C., of Tenn.—We intend to puilish your article on flying, but we cannot state the precise time at present.

I. Z. A. W., of Phila.—The engraving which we published of your sawing machinery illustrates so nearly every feature contained in your last model that we decline getting up another engraving to publish. Your model and the papers have been lodged in the Patent Office.

H. M. P., of Ill.—We should not feel willing to make the investment you propose, as it is out of our line of business.

W. R. A., of Ohio—The sketch of your apparatus for drawing molasses from a cask, has been examined. It is on the principle of the well known Archimedian screw and has been employed for raising water. Applying it to another purpose, could not be patented, no matter how useful the application might be. A patent must rest upon a contrivance for effecting a certain purpose, and not upon a mere change of use.

J. A. H., of Ill—We do not know of any published work on street architecture, neither do we know the price of Pugin's work. Address Appleton & Co., New York City.

T. D., of Ala—You may rest assured that the atmospheric telegraph could not be operated on such long lines as the electric telegraph; but for short lines it might work economically.

L, G. E.. of Ala.—It would cost too much to send your model by mail. You had better send by some friend for it who may be visiting the city.

E. H., of N. Y.—We will send you four patent laws as soon as we have any. We are obliged to you for the remittance of two dollars.

S. P. F., of N. B.—Your subscription expires at No. 26 present volume.

A correspondent from Greenfield, Ill., writes us that the Osage orange hedges are flourishing remarkably on the prairie land in that State. The Osage orange was introduced extensively in that region, at our suggestion, published some years ago.

L. W. S., of Ohio—We believe the gas engines alluded to by you are still in the Crystal Palace. By reference to the articles published in this Vol. on the American Institute Fair, you will find our views in regard to such engines. Spelter for soldering brass, is an alloy of zinc and copper in nearly equal parts.

D. H., of Wis.—A machine that has been in public use for more than two years prior to the application for the patent cannot be secured by valid patent. A patent could not be procured on a two edged mortising chisel with a space between the edges in the form of an inverted V. It is not sufficiently novel to justify an application for a patent.

D. C. T., of N. Y.—Throw two pounds of sal ammoniac into your steam boiler, and try if it will remove the scale. It is the best substance for this purpose that we are acquainted with.

M, B., of Md.—Ten-horse power should drive two run of stone, and grind one barrel of flour on each run per hour with ease.

H. S., of Va.—We do not believe a patent would be granted for bleaching the articles described by you, because various vegetable substances are now bleached by it; and the method of doing so is known to every chemist.

A. C., of Ohio—There is no positive rule for the hight of chimneys to boilers. The higher the chimney the better the draft. If you make the throat of your chimney of equal area to the flues you cannot go wrong. We would use for your boiler—48 inch diameter and 30 feet long—a chimney 70 feet high, with a throw of about 24 inches.

J H. C., of Phila.—You can cast iron pulleys in iron molds, but this will chill their surface, so that you will not be able to turn them in a lathe. Soft metal pulleys, however, will answer very well to be cast in iron or brass molds.

J. J, G., of Mass.—Some fusible plugs in boilers have become hard and infusible. It is believed that they became porous, and absorbed scale and oxyd of iron, and thus acquired a strong infusible character. Safety plugs are still objects of solicitude by our steamboat inspectors.

M. H., of Pa.—Admitting a current of cold air into a room from the outside, to be heated as it comes in contact with the stove or furnace, is not a new idea. We have had it very often proposed for our consideration. There may perchance be something new in your *arrangement* for heating. We could better decide this point upon being furnished with a sketch and description of your contrivance.

G. W. R., of Wis.—If you will refer to Vol. 8, Sci. Am., page 272, you will find an engraving of a divided car axle which fully covers yours. We cannot tell how many times we have had the same device presented to us. We presume more than one hundred. Dividing a car axle in its center, or at any other point, or using one fixed and one loose wheel, for facilitating the turning of curves, is a well-known contrivance.

T. McG., Jr., of Ohio—It would require a large amount of space to answer all your questions in relation to steam boilers, their size, horse power, heating surface, &c. In Vol. 7, Sci. Am., we published a series of illustrated articles touching on the different points on which you request information. These will give you the desired information Ten square feet of heating surface is allowed for each h rse power. Eight-horse power will drive one run of stones at a high velocity.

J. G., of Ohio—Agreeable to your order, we remitted you $30 in bills by mail on the 5th inst., to pay the 9th prize, which was awarded you.

J. A. R., of N. H.—Your engraving of the cultivator is not suitable for our columns. We could get one up from your letters patent that would answer our purpose for ten dollars. If you wish a handsome engraving to appear in our columns send us your patent, and the above amount, and we will get up one that will be a credit to your invention.

F. D., of Vt.—You are mistaken in your supposition—the receipts on perfumery, etc., over the signature of Septimus Piesse, are not extracts from any book, but furnished to us direct by the author.

C. B. H., & others, of N. Y.—We regret it, but we have not a copy of the Patent laws on hand to send you. In hopes of having the existing patent laws amended this winter, we have delayed issuing another edition of the Laws. A copy of the official edition of "Information to parties about to apply for patents," we will send you gratis in a few days, and when our edition is published we will forward you a copy for the remittance you have made.

W. H., of Pa.—Mr. Burdon, whose advertisement you will find on another page, makes such presses as you want. The artificial stone which you have made cannot be patented, because the same ingredients are now used for making such stone in this city, and have been secured by patent.

M. R.'s communication on coke and coal burning for locomotives is refused because it has no responsible owner to father the production. It is unmanly to write to a news paper without giving your address.

N. C., of Ala.—Iron soda fountains are preferable to those made of copper. They can be obtained of Wm. Gee, Soda Fountain maker, Fulton st., this city, who will inform you of the price, if you communicate by letter, stating what you want.

Marcus Pratt, Brattleboro, Vt., wishes to correspond with a manufacturer of small tin boxes.

G. G., of N. Y.—We think very favorably of your improvement in harness buckles, but we do not think a patent could be procured for it. Buckles having an independent bar for supporting the tongue, have long been used for suspenders, and the mere change of use would not be regarded as patentable in the law's eyes. It would be useful for harnesses as it would prevent the necessity of cutting away the leather for admitting the buckle tongue.

M. R., of Wis.—Your model we will preserve for you until next May. We do not think your interests will be very much jeopardized by the delay. Still that is a risk you must run.

H. C. G., of Wis.—Your letters patent are received, and the engraving is in progress of execution. The cuts wil appear in the paper in about three weeks.

Money received at the SCIENTIFIC AMERICAN Office on account of Patent Office business for the week ending Saturday, Feb. 9, 1856:—

S. H. P., of Ct., $30; C. W. P., of N. J., $10; D. T., & Co., of Del., $30; S. & B., of Mich., $15; I. A. H., of Mass., $25 C. F. B., of O., $30; W. H. H., of Mass., $30; W. S., of Pa., $10; J. M., of Pa., $25; J. N., of Ct., $30; F. W. T., of Ct., $15; A. L., of Pa., $30; G. W. F., of Mass., $30; S. B. D., of Mich., $250; J. M., of Pa, $100; O. W. S., of Ct., $30; T. S., of N. Y., $25; R. U., of Mich., $13; M. N., of Pa., $30; C. F. H., of L. I., $20; W. B., of L. I., $25; J. S., of N. Y., $25; C. A. Van D., of Ala., $25; S. B., of N. Y., $25; J. D., of N. Y., $25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Feb. 9:—

I. A. H., of Pa.; I. Z. A. W., of Pa.; J. M. of Pa.; H W A., of N. Y.; F. W. T., of Conn; W. W. A., of N. Y.; M. & C. P., of Md.; W. B., of L. I.; J. S., of N. Y.; T. S., of N. Y.; C. A. Van D., of Ala.; C. E. & C. D. A., of N. J.; S. B., of N. Y.; J. D., of N. Y.; M. P., of N. Y.; J. H. B., of Vt.; R. U., of Mich.; S. W. & P. M. D., of Mass.; I J. W. R., of N. Y.

Important Items.

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.

Subscribers or exchanges who are entitled, to the paper and fail to receive it regularly are desired to inform us that any omission may be corrected. Missing numbers are furnished gratuitously where the fault rests with the publishers.

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 enclosing $1 as fees for copying.

Literary Notices.

RAILROAD AND CIVIL ENGINEERS POCKET BOOK.—We have examined the above-named book, which was advertised in our columns last week, and find it crammed with usefulinformation, got up with great care by its author, Oliver Byrne, C. E., and neatly printed and bound for pocket use. It contains a great number of tables to shorten calculations, and contains much new matter on civil engineering, which, its author says, is derived from personal experience. Published and for sale by C. Sheppard & Co., No. 154 Fulton St., this city.

LESLIE'S GAZETTE OF FASHION—The February number of this monthly contains illustrated descriptions of the fashions, ball dresses, riding dresses, head dresses, &c., Published by Frank Leslie, No. 12, Spruce street, N. Y.

Terms of Advertising.

4 lines, for each insertion,	$1
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Advertisements exceeding 16 lines cannot be admitted, neither can engravings be inserted in the advertising columns at any price,

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PATENT RIGHTS FOR SALE—The cheapest and best curtain fixture in the United States operated by a single cord. Terms cash. Notice, Conant's Self-Adjusting Sewing Shield, (patent applied for,) to be worn on the fore finger of the left hand, to protect it from the point of the needle, will be sent to any address for 25 cents in postage stamps. Persons wanted to sell it in every town in the United States. New and useful inventions for sale. Models for patents made on short notice. Dies cut to order. Address, LEWIS WHITE, No. 10 Trunbull St., Hartford, Conn. 1*

FILMER & CO., Electrotypers, and Manufacturers of Electrotype Materials, 128 Fulton st., N. Y. Molding Presses, Batteries, Cases, Backing Pans, Shaving Machines, Metal Kettles, Planes, Blocks, Building Irons, etc., etc., on hand, or furnished at short notice, and at moderate charges. Adams' Improved batteries and black-lead machines also for sale. 23 tf

BALLOONS—Balloons of all sizes made to order, with printed instructions to fill and use them, comprehensive to ordinary minds. A 25 feet diameter balloon, all complete for aerial voyages, $300 Address JOHN WISE, Aeronaut, Lancaster, Pa. 23 4* eow

STEAM ENGINE—80-horse power, with fly wheel and 15 foot 4 foot face band wheel, pumps, pipes, &c., for sale very cheap. Apply to JOHN THURSBY'S SONS, 233 Front street, New York. 1*

STEAM ENGINE of 100-horse power for sale.—New and made by a celebrated maker.—Will be sold at a bargain for cash only. Apply to J. PECARE, 153 Hester street, New York City. 22 3*

J. HERVA JONES, Inventor of Randall & Jones' Patent Hand Planter, and proprietor of New York, Michigan, Wisconsin, Minnesota, and Northern Illinois, Superior to all. Machines and Rights for Sale. Agents wanted. Send for a circular. Rockton, Winnebago Co., Ill. 22 5*

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, 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 few others possess, we are able to give the most correct counsels 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 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 Attornies, 128 Fulton street, New York; 32 Essex Strand, London; 29 Boulevard St. Martin, Paris; No. 3 Rue Therestienne, Brussels.

WM. BURDON'S STEAM ENGINE WORKS, 102 Front street, Brooklyn, N. Y.—Engines from 3 to 40 horse power constantly kept on hand, of the latest styles and patterns, with all the modern improvements. Engines from 40 to 200 horse power made to order, high pressure or with condensers. Also portable engines with boilers, and engines attached with wheels for pile-driving and wood-sawing, circular saw mills, upright engines that take up a very small space for printers' and pumping engines, steam pumps of various sizes, rotary pumps and mining pumps; also quartz mills and stampers for copper and gold; improved hoisting machinery for mines or stone quarries: also sugar machinery, sugar mills, sugar kettles and vacuum pans, saw mills, grist mills, marble mills, rice mills, screw and hydraulic presses, boilers, and castings of every description. The reputation that Wm. Burdon has sustained for the last 20 years, as an engine builder, is a guarantee for his work. Miners and manufacturers will find it to their advantage to patronize his establishment, as not less than one hundred finished engines are kept on hand. With the large lot of boilers, shafting, pulleys and hangers kept on hand, orders can be shipped the same day they are received. Also a large number of second hand engines of various sizes for sale. Second hand engines bought or exchanged for new ones or sold on commission. The great facilities and perfect system and order carried on in this establishment, enables Mr. Burdon to sell lower than any other establishment in the country for the same material and labor. Advice given gratis, drawings and plans made at the shortest notice. 4*

LINEN MACHINERY—JOHN R. McNALLY Champlain, N. Y. Agent for the sale of linen machinery of every description, new and second hand. Engineers and machinists tools, and linen yarns of every number and quality. 22 13*

BULKLEY'S PATENT DRY KILNS, by super heated steam, will dry grain, flour, and meal, without scorching, at a cost of two cents per bbl. Also green inch lumber in 12 to 20 hours. Circulars sent free on application. H. G. BULKLEY. Kalamazoo, Mich. 23 2*

N. AUBINS UNIVERSAL PORTABLE GAS GENERATOR—Patents granted Sept. 23, 1854, and Jan. 8, 1856 For factories, hotels, country houses, villages, &c. Warranted as more simple and economical than any other known apparatus. Cost of gas less than 1-4 of a cent per hour for each 5-foot burner. Can be managed by a house servant, as the joints are never disturbed, either for operation or cleaning, and the construction of the apparatus renders explosion impossible. A gold medal was awarded at the late Fair of the American Institute, N. Y. For works or rights under the above patents, apply to H. C. HAWLEY & CO., Albany, N. Y. 22 4*

CIRCULAR SAW MILLS—of improved construction, lever and pinion set, with guide for saws, furnished ready for the belt, with 4 feet saw $350, 4 1-2 feet saw $400, 5 feet saw $450. One man can cut easily 1000 feet inch pine boards per hour, or a 12 feet board in ten seconds. These mills make lumber at less than half the expense of the up-and-down saw. Steam Engines on iron frame, black finish, of the best quality, with pumps, heaters, fly wheel, crank shaft, pulley, governor and governor valve, sufficient to drive the circular saw mill, $450.—Engines 30-horse power, $700; 70-horse power, $900; 100-horse power, $1250; with pumps, heater, fly-wheel, pulley, crank shaft, governor, governor valve, &c., warranted perfect—on iron frame. Boilers, flue, and tubular, at reasonable prices. Shingle Sawing Machines of simple and improved set, self-feeding and self-stopping, to cut tamarack, oak, ash, or pine, into superior shingle, 600 to 1,000 per hour Apply to L. A. SPALDING, Lockport, Niagara County, N. Y. 21 4

BOILERS FOR SALE—3 cylinder boilers, 44 inches diameter, 30 feet long, with two 13 inch flues, each with steam drums 36 inches diameter and 5 feet high, and cross boilers 36 inches diameter and 12 feet long, safety and check valves, all in complete working order. Also for sale a set of "Van Sickle's Patent Salamander grate bars," for furnace 5 feet by 10, new. Apply to HECKER & BROTHER, 267, Cherry st., New York. 20 4*

SCIENK MACHINERY DEPOT—No. 163 Greenwich street, New York, keeps always on hand Lathes, Planers, Drills, Steam Engines, Woodworth's Patent Planing Machines, Belting, &c., in great Variety. Tools furnished of any size, to order, and of the best quality. 20 6 A. L. ACKERMAN, Proprietor.

TECHNICAL DICTIONARY—In the English, French, and German Languages; by Messrs. TOUHAUSEN & GARDISSAL, Civil Engineers. Ready (first part,) French, English, German, price $1,31; (second part) English, French, German, price $1,50. These volumes are designed for the general use of Engineers, Artists, Manufacturers, Foremen, Artizans, in short, of all those who, in some way or other, are concerned in Arts and Manufactures. The present work is the key through which the foreign reader may penetrate into a language which he may know but imperfectly; it is the instantaneous translator of the corresponding technical term, or its equivalent, in the three great industrial languages.—For sale at the SCIENTIFIC AMERICAN Office

WE HAVE ALWAYS ON HAND and manufacture to order, with the newest and most practical improvements, Surveyor's Compasses, Transits, Theodolites, &c., warranted to give satisfaction. Also Swiss drawing instruments. Catalogues gratis on application. AMSLER & WIRZ, 211 Chestnut st., Philadelphia. 16 4weo

MACHINERY—S. C. HILLS, No. 12 Platt street, N Y., dealer in Steam Engines, Boilers, Planers, Lath es Chucks, Drills, Pumps; Mortising, Tenoning, and Sash Machines, Woodworth's and Daniel's Planers; Dick's Punches, Presses, and Shears; Cob and Corn Mills; Harrison's Grist Mills; Johnson's Shingle Mills; Belting, Oil, &c 1 e3w

CIRCULAR SAWS—We respectfully call the attention of manufacturers of lumber to the great improvements recently introduced in the manufacture of our Circular Saws. Being sole proprietors of Southwell's patent for grinding saws, we are enabled to grind circular saws from six inches to six feet with the greatest accuracy and precision. The impossibility of grinding a saw without leaving it uneven in thickness has always been acknowledged by practical saw makers. This causes the saw to expand as soon as it becomes slightly heated in working. When this takes place the saw loses its stiffness, and will not cut in a direct line. We will warrant our saws to be free from these defects: they are made perfectly even in thickness, or gradually increase in thickness from the edge to the center, as may be desired. As there are no thick or thin places, the friction on the surface of the saw is uniform, consequently it will remain stiff and true, and will require less set and less power. Will saw smooth, save lumber, and will not be liable to become untrue. This is the oldest establishment now in existence for the manufacture of circular saws in the United States, having been established in the year 1830. Orders received at our Warehouse, No. 48 Congress st., Boston. 12 3m* WELCH & GRIFFITHS.

ROCK DRILL—The American Rock Drill Co. invite attention to their superior machines, adapted for all kinds of rock work in quarries and mines and especially for artesian wells. They are simple in construction, powerful and accurate in operation, and can be run by hand, steam, or horse power. An engraving and full description appeared in No. 15 of the Scientific American. Apply to T. H. LEAVITT, Agent and Treasurer of the A. R. D. Co., No. 1 Phœnix Building, Boston, 17 3m*

TO COTTON MANUFACTURERS.—VOGT & ZOLLIKOFER, 205 Market st., Philadelphia, offer for sale at manufacturers prices, Warping Mill Hicks of 150 and 120 eyes. A liberal discount for cash will be allowed. 21 3*

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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. 17 13*

W. P. N. FITZGERALD, Counsellor at Law—late Principal Examiner in the U. S. Patent Office—has removed from Washington, D. C. to the city of New York, 271 Broadway, (corner of Chambers St.) As heretofore, his practice is confined to Patent Cases, which he will prosecute or defend, as counsel, before the Supreme and Circuit Courts of the United States, also before the Patent Office, or the Judges having jurisdiction of appeals therefrom. 11tf

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THE NEW YORK DAILY SUN—Is forwarded by the early mails to country subscribers at $4 per annum, or $1 per quarter, payable in advance. The postage under the present law is as follows: to any post office in the State of New York, 78 cents per year, payable quarterly in advance. Out of New York State, but within the United States, $1.56 per year, payable quarterly in advance. MOSES S. BEACH, Publisher, 4 Corner of Fulton and Nassau sts.

IMPORTANT TO ENGINEERS AND MACHINISTS—NOTICE—Those wishing to obtain the genuine articles of Metallic Oil and Grease, should send their orders direct to the manufacturer, AUGUSTUS YOCKNEY, Office 67 Exchange Place, New York. No Agents employed. 1 6m*

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.

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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 low for cash or approved paper. For cuts giving full description and prices, address, "New Haven Manufacturing Co." New Haven, Conn. 19 tf

HARRISON'S GRAIN MILLS—Latest Patent.—$1000 reward offered by the patentee for their equal. A supply constantly on hand. Liberal Commissions paid to agents. For further information address New Haven Manufacturing Co., New Haven, Conn., or to S. C. HILLS, our agent, 12 Platt street, New York. 19tf

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