TO CORRESPONDENTS.

Those of our subscribers who have duplicate copies of of No. 6, 12, 15, and 17 present volume, will oblige us by forwarding them to this office.

J. G. C., of D. C.—It is no doubt very desirable to employ some substitute for cast ron in the manufacture of artillery. so as to obviate the immense weight necessary to render them sufficiently strong, and at the same time to insure greater strength. It has been found that cast-iron guns have given way after a very limited number of shots, and thus need frequently to be replaced. In a 72-pounder the pressure of the explosion is about 72 tuns to the square inch, which is ten times the force of the tensile resistance of a square inch of the metal ; a patent, however, could not be obtained for substituting one metal for another, such as steel for cast iron.

A. T., of Montreal—The fact of portrait painters making such back grounds, would prevent their application to daguerreotypes being a proper subject for a patent. You do not say how they are to be produced. It is quite probable that there may be something new and patentable in your manner of producing them.

E. P., of Union Point—If you will furnish us with your residence in full, we shall be happy to send you one of our circulars relating to patent business. When you write please to repeat your requests, in order that we may know what you want. You will bear in mind that there are several Union Points in this country.

Messrs. Speed & Bailey, patentees of the Car Spring. will learn something to their interest by calling at this office.

G. McD., of Vt.—In our Fair notices we gave the address of George Whipple, Manufacturer of Knitting Machines, at No. 24 William st. We do not know where else he can be found. If he would advertise his machinery in the Sci. Am., it would pay him fifty times as much as he would make out of its exhibition at the Crystal Palace. We have had numerous inquiries for his machines since our notice appeared. Some papers refuse to give the address of inventors when noticing their inventions, for the reason that they do not wish to advertise gratuitously. This is the right of the publisher. yet we never hesitate to give the fullest benefit to inventors in our columns, and our gratuitous notices are productive of vast benefit to those who are thus favored. We have no selfish desires in this matter, for we do not seek for advertising, but we are very sure that the Sci. Am., with its immense circulation, is the best advertising medium in the world for inventors and patentees to adopt in disposing of rights and machines.

W. H. N., of Ct.—Yours is not a perpetual motion, as understood, any more than a wind or a tide mill. You give motion to a mill by the expansion and contraction of mercury, caused by the changes of atmospheric temperature; which is similar in principle to the ebb and flow of the tides.

J. C. M., of Pa.—Correspondents who write to us for information without signing their names, are not entitled to any attention. It is our rule not to notice their inquiries ; but as you are evidently ignorant on this point, we will answer you by referring you to Logan & Lidgerwood, No. 9 Gold st., N. Y. They sell good wrenches, but we do not know their price per dozen.

A. W. H., of Mo.—It would be impossible to get a person with capital to engage in the business to which you refer without perfect assurance that it will prove profitable.

C. & G., of N. Y.—We will have something to say about water power either in the next or succeeding number to that, of the Sci. Am.

G. C., of N. Y.—We do not know anything about the subject brought to our notice.

G. B. McD., of Ky.—Pistons have been applied in many forms for steam gauges, and there is nothing essentially new in your arrangment to entitle you to a patent.

D. G. Mills, of Gulf Prairie, Texas, wishes to procure a good machine for cutting ditches about 2 1-2 feet wide at the top, 18 inches at the bottom, and 21-2 feet deep.

Timothy Riggin, and Gerard Sickles, of Brooklyn, H. W. Adams, of this city, and W. H. Wood, of Jersey City, will please to call at this office, and execute their papers for applications for patents.

L. B. M., of Pa.—If you will look over the back files of the Sci. Am., and inform us what numbers you want we will send them if we have them on hand. We do not remember of any numbers which contain such illustrations as you want and it would take up a good deal of our time in looking them up.

J. F. G., of N. Y.—We believe the objection to the loose wheel is that it tends to throw the cars off the track. We think it has been tried on the Erie Road. You had better inquire of McCallum the Superindent.

J. L., of C. W.—We do not perceive any novelty in your plan for ventilating railroad cars. It is not new, and we advise you to abandon it.

F. E. J., of Mass.—The idea of putting a strip of india rubber under railroad rails, to obviate noise and jarring, is not new. We noticed the same thing in the Sci. Am some time ago.

E. W. F., of La.—We were much amused with your description of the spiking and sinking of the cypress log. We have sent you the information desired respecting the Woodworth Patent.

W. B., of——You wish to know the velocity of falling water, at the various hights from five to ten feet. It falls four feet in half a second ; five feet in ·557 of a second ; six feet in ·636 of a second ; eight feet in ·705 of a second ; nine feet in ·75 of a second ; and ten feet in ·79 of a second. In conducting the water down through a shute, it is estimated that the resistance to the above velocity, which is that of falling bodies, in free space, is equal to a little over twenty-six per cent.

D. C., of Ct.—We may not be able to discover where the deception of the perpetual motion is confined, but certainly no machine can set and keep itself in motion according to the known laws of mechanics.

H. H., of Mass.—The journal to which you refer is a monthly. It is a very respectable publication.

J. C. D., of Newark—Your alleged substitute for a crank has been carefully examined. Its arrangement differs from any other with which we are acquainted, yet we do not see any thing in it that betokens success.—We think it would be valueless except perhaps on very small engines.

J. G., of St. Louis—We do not know anything about your caveat, but if the Commissioner does not acknowledge the receipt of the papers soon you had better write him again. $3 received, will send you a bound volume.

O. A., of Ind.—Not a copy of the *People's Journal* is to be had.

W. T. Boyer & Bro., Harrisburg, Pa.—Wish to procure a machine for breaking copper ore.

J. E. S., of N. Y.—Address John Jones, Clyde, N. Y., for information about mechanical typographer.

W. K., of Ky.—Please send your model as soon as convenient, and we will give prompt attention to the preparation of your case.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, Jan. 23, 1856:—

W. & B., of Me., $25 ; I. A. H., of Mass., $10 ; W. S., of Iowa, $30 ; P. D. M. C., of N. Y., $35 ; M. & C. P., of Md., $55 ; A. E. C., of Pa., $20 ; H. & B., of N. Y., $55 ; B. F. F., of Pa., $25 ; A. McD. S., of Ala., $60 ; C. & P., of N. Y., $50 ; M. & B., of N. Y., $30 ; B. & F., of N. Y., $35 ; F. V., of Mich., $25 ; J. G., of Mass., $25 ; F. W. T., of Ct., $20 ; L. J., of N. Y., $30 ; T. S., of N. Y., $30 : L. B. A., of Pa., $43·50 ; J. M., of Pa., $50 ; T. McB., of N. Y., $25 ; H. J. H., of Me., $25 ; M. B., of N. Y., $55 ; M. N., of N. Y., $30 ; G. J. B., of——$30 ; J. H. B., of Vt., $55 ; L. & A. T., of Ct., $30 ; W. M. B., of Del., $25 ; J. C. G., of N. J., $20 : J. H., of Mo., $30 ; A. C. K., of N. Y., $55 ; W. H. W., of N. J., $12 ; E. G., of Mass., $55.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Jan. 26 :—

W. & B., of Me. ; W. W., of La. ; B. F. F., of Pa. ; D. F. L., of Pa. ; F. V., of Mich. ; C. W. C., of N. Y. ; J. G., of Mass. ; R. T. S., of Geo. ; S. T., of Ind. ; W. H. W., of N. J. ; A. F. & C. M. H. W., of N. Y. ; H. & B., of N. Y. ; H. J. H., of Me. ; T. McB., of N. Y. ; J. M. B., of N. Y., W. M. B., of Del. ; A. C. K., of N. Y.

Important Items.

Back Numbers and Volumes—The following numbers and volumes of the Scientific American, are for sale at this office, at the annexed prices:—Volume VI, Vol. VII, Vol. IX, and Vol. X, complete. Price, *bound*, per Volume, $2,75. Numbers in sheets, complete, $2. Of Volumes IX. and X., we have also about 40 numbers each, not consecutive, which will be sent by mail on receipt of $1.

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.

Binding—We would suggest to those who desire to have their volumes bound, that they had better send their numbers to this office, and have them executed in a uniform style with their previous volumes. Price of binding 75 cents.

Literary Notices.

Magazines Received for February—"National Magazine," Carlton & Phillips, New York. "Arthur's Home Magazine"—T. S. Arthur & Co., Philadelphia.—These magazines are excellent, and high toned. They contain interesting illustrations, and several choice articles.

Terms of Advertising.

4 lines, for each insertion,	$1
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12 " " "	$3
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☞ All advertisements must be paid for before inserting.

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*

TO SHIP BUILDERS—Having just secured two valuable inventions by letters patent—one on supporting the top masts, and the other in suspending lower top sail yards—I am desirous of selling rights, or procuring agents for disposing of the inventions in the United States. Charges for a license to use both patents 5 cents per tun. Address THOS. BATTY, 204 South st., New York City.

New York, Jan. 22nd, 1856.

Thomas Batty—My Dear Sir ; I have adopted your patent of suspending lower top sail yards, and have fully tested them on my late passage from Liverpool, and find them substantial in every respect. The supporters also are a great improvement in relieving the trestletrees and fid, having loosened my fid with everything standing and set up. CAPT. DAVID CAULKINS,
1* Ship Henry Clay.

PARTNER WANTED—The undersigned wishes to make arrangements with some responsible party to enter into the manufacture and sale of the "Automatic Entry Light," illustrated in No. 7, this volume Scientific American. This invention may be very generally introduced in entries, water closets, state rooms in steamboats, or as a nightlamp or nursery lamp. It is simple, durable, and cheap, and if well managed. cannot fail to be profitable to those who may invest in it. C. W. FELT, Salem, Mass. 1*

A PROFITABLE BUSINESS is offered to any party willing to pay the expense of a patent in England, on a new and practical invention, for which a patent was recently granted in the United States. For further particulars apply, with real name, B., Box 1214, P. O. 1*

TO COTTON MANUFACTURERS. VOGT & ZOLLIKOFER, 205 Market st., Philadelphia, offer for sale at manufacturers prices, Warping Mill Hanks of 160 and 120 eyes. A liberal discount for cash will be allowed. 21 3*

WANT TO SELL—Miller's "Patent Carriage Top Lifter." the right for any of the large States at $100 each ; small States, $50 each. Address R. MILLER, Farmington, Trumbull Co., Ohio. 1*

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.

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American and Foreign Patent Attornies, 128 Fulton street, New York ; 32 Essex Strand, London ; 29 Boulevard St. Martin, Paris ; No. 3 Rue Theresienne, Brussels.

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 board 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 1000 per hour Apply to L. A. SPALDING, Lockport, Niagara County, N. Y. 21 4

SCIENTIFIC WORKS—Published by D. Appleton & Co., 346 and 348 Broadway :—Appleton's Dictionary of Mechanics, Machines, Engine Work, and Engineering, 2 vols., 8vo. $12 ; Bourne's Catechism of the Steam Engine, Bourne's Treatise on the Screw Propeller, 4to. $9 ; Gillespie's Treatise on Surveying, 8vo. $2 ; Griffiths on Marine Architecture, $10 ; Hencks' Field Book for Railroad Engineers, $1·75 ; Holbyn's Dictionary of Scientific Terms, 12 mo., $1·50 ; Knapen's Mechanics Assistant, $1 ; Lyell's Principles of Geology, 1 vol. 8vo. $2·25 ; Lyell's Manuel of Geology, 8vo. $1·75 ; Overman's Metalurgy, 8vo. $5 ; Templeton's Mechanics, Millwright, and Engineers Pocket Companion, $1 ; Ure's Dictionary of Arts, Manufactures, and Mines, 2 vols, 8vo. new edition $5. D. A. & Co., have on sale all the important English Engineering Works. 20 3t

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*

SCHENK 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.

THE NEW BRICK MACHINE—has been more than two years in successful operation. Mine is driven by a small portable engine, costing $635. The clay is taken from the bank, passed through a pulverizer—which frees it of stone—into the pit, where it receives the water pumped up by the engine, thence to the machine, where it is tempered and molded ; making 2100 per hour, or an average of 20,000 in ten hours. Price $400, pulverizer $75. A smaller one worked by a horse makes 1000 per hour, and costs $250, pulverizer $50, which last may be dispened with if the clay be without stone. For futher particulars in a pamphlet giving full instructions on brick burning, address FRANCIS H. SMITH,
20 2* Baltimore.

TECHNICAL DICTIONARY—In the English, French, and German Languages ; by Messrs. FOLHAUSEN & 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.

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.

H. WELLS, & CO., Florence, Hampshire Co., Mass. will furnish to order, Morrison's Patent Shingle Machines. This is the only machine extant that will rive with the grain of the wood, and produce perfect shaved and jointed shingles. The machine will work any kind of timber that can be worked by hand, and will make 25,000 shingles in 10 hours. regardless of width, with 4-horse power. Child's Circular Saw Mills constantly on hand, 11 6 eow*

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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. D. LEAVITT, Agent and Treasurer of the A. R. D. Co., No. 1 Phœnix Building, Boston. 17 3m*

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1855-6.—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 $35 to $1450. Rights for sale in all the unoccupied Towns in New York and Northern Pennsylvania. JOHN GIBSON, Planing Mills, Albany, N. Y. 14 3m*

DISSOLUTION.—The firm of Morse, Stansbury & Co., of New York, is dissolved under the articles of agreement, by the retiring of the undersigned, who is no longer connected with any firm in the United States. In connection with Mr. John T. Pitman, (late clerk of the U. S. Courts of Providence, R. I.,) and under the name of Stansbury & Pitman he continues the business of procuring European Patents, and negotiating their sale.
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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

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. 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.
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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.

Office for sale of rights at 208 Broadway, New York Boston, 27 State street, and Lowell, Mass. 19t

GRAIN MILLS—EDWARD HARRISON, of New Haven, Conn., has on hand for sale, and is constantly manufacturing to order, a great variety of his approved Flour and Grain Mills, including Bolting Machinery, Elevators, complete with Mills ready for use. Orders addressed as above to the patentee, who is the exclusive manufacturer, will be supplied with the latest improvements. Cut sent to applications, and all mills warranted to give satisfaction. 10tf

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THE EUROPEAN MINING JOURNAL, RAILway and Commercial Gazette. A weekly newspaper, forming a complete history of the Commercial and Scientific Progress of Mines and Railways, and a carefully collated Synopsis, with numerous Illustrations, of all New Inventions and Improvements in Mechanics and Civil Engineering. Office 26 Fleet street, London. Price $6.50 per annum. 36 tf

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