

TO CORRESPONDENTS.

C. D., of Ohio.—The steam will rise through the water just according to its pressure on the square inch, and no more. If boiling water be admitted into a vessel containing steam, it will sink to the bottom, because it is heavier than the steam.

L. W. T., of N. Y.—Tinsmiths say there is no difficulty in cutting out elbows by the dividers, but your plan may be a superior one. We would like to see it.

F. V., of N. H.—On a good railroad, a horse will draw four tons at the rate of four miles per hour, but we cannot tell how much a horse will draw on our common roads for eight hours, at that speed. On a good macadamized road he can draw 484 lbs.

J. S. S., of Conn.—We are not aware of any patent in force for machinery to make fish hooks, nor for keeping the straw straight in a thrasher.

M. B., of Va.—Original designs for monuments would be the proper subjects of letters patent under the Act of Congress for the protection of designs, etc. Preserving the autograph and likeness of a deceased person is not new; it has several times been proposed, and it has also been carried into effect.

S. H. D., of Vt.—One of the objections to the use of book and paper-folding machinery, is the difficulty of discriminating between good and bad sheets. In hand-folding the bad sheets are thrown out, but in folding by machinery this very essential result cannot be attained. Your machine appears to be new and patentable.

R. B. O., of N. Y.—If we allow the fall to be 5 1/2 feet, and the area 400 inches of water, the amount falling in one second will be 26 1/2 cubic feet, the full power of which will only be a little over 16 horse, so we make it less even than you have done. There is a mistake somewhere.

J. T., of Ala.—Your waterfall will be about 25 horse power, as by your data 630 cubic feet falls per minute, and the height is 21 feet. Allow one-third for friction and loss on a wheel. This is a good power, but are you not mistaken about the velocity of your water?

C. G. T., of Wis.—Percussion pills are made with percussion powder—chlorate of potassa—mixed with a little gum mullage and glass dust. We do not know where you can obtain them.

H. T. R., of Mass.—The foregoing is also an answer to your question.

J. M. C., of N. C.—The sketch of your atmospheric railway has been examined; it contains no new feature: on the St. Germain railway, in France, essentially the same system is in successful use, and has been for some years. It is too expensive, and therefore has not been adopted. The system of drawing the train up the incline, by means of stationary power, chains and pulley, is generally preferred.

V. N. M., of N. C.—The two models of your plow improvements have been carefully examined. A patent was granted to J. H. Foreman, in 1852, for a plow that fully covers the important features embraced in yours, therefore we cannot advise you to apply.

C. C., of Mass.—The celebrated patent for endless horse power, by the Wheelers, of Albany, N. Y., was extended on the 30th of June, 1855, for seven years.

E. B. W., of Ill.—A hardware store without a rod, affords no immunity from being struck with lightning. The rod must extend above the roof, and be a perfect conductor to the earth. The free muriatic acid in the chloride of zinc solution used for soldering, dissolves some copper out of the soldering iron. The same acid will dissolve copper as well as zinc, and it also dissolves the tin on the tool. Be sure and allow the acid to dissolve plenty of zinc, as a partial remedy.

D. W. W., of Ohio.—The use of caustic soda to purify oil is not new, and no patent could be obtained for it alone, but the combined mixture appears to be new, and a patent ought to be granted for it, if the product is superior to sperm oil.

N. B. O., of Canada West.—There is no patent in existence here for a center discharge wheel containing six issues—the number of issues is not a patentable point.

R. G. H., of Miss.—We think that a patent could be taken out in the name of a slave if he were the inventor. The firm of the oath would have to be modified. Address Stringer & Townsend, 222 Broadway, for the book.

J. R. S., of S. C.—We sent you the list of prices for artists materials a few days since, by mail. We do not know where you can get patterns for theorem painting. Address E. & G. Blunt, 179 Water street, New York, for Nautical Almanac.

G. & W., of N. C.—You should not fail to sign your names to every communication sent to this office. The sketch of your hay preserver has been examined, and we think it is novel—send us a model.

J. B. Reynolds, of Copperas Hill, Vt.—Is now investigating the science of mechanical sucking, and wishes to communicate with G. W. S., who first broached this interesting subject.

F. B., of Canada.—It is only on your side of the line that newspapers are carried by the mails postage free; we are obliged to pay as much postage as ever to get the papers out of the States by mail. Uncle Sam, we admit, is behind Uncle John at this time on his mail system. It should be the policy of every free government to extend the broadest privileges towards the dissemination of knowledge through the press, and one of the best systems to accomplish this would be to abolish the postage tax upon newspapers entirely, and it must be done.

W. M., of N. Y.—It will not be necessary to have your patent ante-dated. If your claim interferes with Mr. B's invention, you can have an interference declared, for the purpose of testing the question of priority.

J. J. W., of Ill.—We are not acquainted with Hay's work on harmonious coloring, and do not know where it can be had.

D. T. J., of N. Y.—The sketch of your alleged improvement in paddle wheels has been examined. We have never seen a wheel possessing the same features entirely, but we have no faith in its practicability. We do not think it capable of bearing up against the immense concussion to which it would be subjected. It might answer very well for the smallest sized boats, but it could not be made strong enough, unless made too heavy, to stand 50 revolutions in a tolerably rough sea.

J. C., of S. C.—As you do not furnish us with your residence, we are not able to answer, by mail, your letter of the 10th inst. You had better send us a model of your gin saw. The sketch is incomprehensible.

J. G., of Canada West.—See illustration of Carpenter's new patent rotary pump in No. 31, last volume of our

A. W. H., of Mo.—The only way for you to get the missing number of the dictionary is to write to D. Appleton & Co., 343 Broadway, who are the publishers. \$6.40 received; all right.

G. W. R., of Iowa.—For an improved system of making shot, see page 32, Vol. 5 Sci. Am.—Smith's patent—which has been in successful use for some time in this city.

J. J. W., of Tenn.—We are not acquainted with any plan to bleach leather that will not injure its texture, still, we think it may be done.

R. E. Johnston, of Etowah, Alabama, wishes to get a machine for shaving shingles.

Money received at the SCIENTIFIC AMERICAN Office on account of Patent Office business for the week ending Saturday, Sept. 22, 1855.—

H. & R., of N. Y., \$250; D. H. D., of Me., \$10; H. C. G., of Wis., \$30; B. J., of Pa., \$30; H. F. P., of N. Y., \$50; B. E., of N. J., \$30; H. M. P., of N. J., \$30; M. R., & Sons, of Pa., \$30; W. A. K., of N. Y., \$30; D. E. R., of Mich., \$25; W. P. W., of Pa., \$350; W. P. D. E. S., of Pa., \$30; W. H. W., of Pa., \$25; L. S., of N. Y., \$25; J. H., of O., \$30; W. S., of N. Y., \$30; B. G., of Vt., \$25; P. V. W., of N. Y., \$25; J. K., of L. I., \$30; R. D. N., of N. H., \$5; J. M. T., of Pa., \$30; R. M. C., of N. J., \$65; J. J. J., of Mass., \$20; H. W. C., of Mass., \$30; J. P. C., & others, of N. Y., \$30; L. J. W., of N. J., \$30; J. S. L., of Mass., \$30; A. K. C., of Ct., \$25; A. K. P. W., of Mass., \$25; T. H., of O., \$25; C. L., of O., \$25; W. S. J., of R. I., \$20; A. D., of Ill., \$30; W. A. M. C. D., of N. Y., \$30; A. C. P., of N. Y., \$30; A. L. B., of N. J., \$30; C. J., of N. Y., \$30; D. S. J. G., of Va., \$25; G. W. B., of Ct., \$30; J. B. D., of Tenn., \$30; H. & M., of O., \$30; S. T., of Ind., \$25; T. S., of N. Y., \$12; W. R., of N. Y., \$25; S. & C., of Pa., \$25; Z. G. B., of Ill., \$25; L. B. & H. B. M., of O., \$30; S. B. W., of O., \$55; G. A. P., of N. Y., \$250; H. B. H., of O., \$30; D. A., of Canada, \$100; R. G. R., of Ct., \$25; H. N. S., of Ct., \$30; O. V. R., of Ill., \$30; W. H. P., of Ky., \$30; A. H. of Va., \$30; W. D. H., of Mass., \$30; I. P. B., of Ga., \$25; G. L., of N. Y., \$25; J. S. S., of N. Y., \$25; V. S., of N. Y., \$55; A. M. G., of N. Y., \$25; E. M., of Ill., \$25; S. & S. M. C., of O., \$30.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 22nd.—

H. F. P., of N. Y., (2 cases); L. S., of N. Y.; I. F. B., of Ga.; S. A. H., of Mass.; D. E. R., of Mich.; C. W. R., of Pa.; B. G., of Vt.; J. H. G., of Ky.; C. L., of O.; G. L., of N. Y.; J. S. S., of N. Y.; T. H., of O.; P. V. W., of N. Y.; D. S. J. G., of Va.; R. D. N., of N. H.; V. S., of N. Y.; A. M. G., of N. Y.; W. R., of N. Y.; S. & C., of Pa.; S. T., of Ind.; E. M., of Ill.; H. N. S., of Ct.; D. W. C., of Ct.; R. M. C., of N. J.

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.

Terms of Advertising.

Table with 2 columns: Lines and Price. 4 lines, for each insertion, \$1; 8 " " " " \$2; 12 " " " " \$3; 16 " " " " \$4.

Advertisements exceeding 16 lines cannot be admitted, neither can engravings be inserted in the advertising columns at any price.

All advertisements must be paid for before inserting.

IMPORTANT TO INVENTORS.

THE UNDERSIGNED, having had 17 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 1/1000, 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 probability 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, on the proper day, 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.

MUNN & CO.

American and Foreign Patent Attorneys, 123 Fulton street, New York, 32 Essex Street, London; 29 Boulevard St. Martin, Paris; 6 Rue D'Or Brussels. IMPORTANT TO PATENTERS.—Persons owning valuable patents, or portions of such, which have been infringed upon, may secure the services of an experienced person, familiar with U. S. patent practice, who has already recovered many thousand dollars on infringements of patents. No charge whatever made to the patentee. The remuneration—a per centage on amount recovered, or an interest in the patent. Address PATENT ATTORNEY, Herold Office, for two weeks.

TO MANUFACTURERS, MECHANICS, AND Foundrymen.—Memphis Navy Yard Grounds for Lease. These Grounds, comprising about 80 acres, with a front on the Mississippi River, of 3000 feet, will be offered on lease of 25 years, on the 20th November, 1855, in lots to suit the demands. There are seven large and costly buildings, constructed of stone and brick, and covered with slate,—among them the Rope Walk, which is 1650 feet long, and supplied with perhaps the finest collection of machinery in the Union. The entire buildings and grounds are finely adapted to machine shops, foundries, and boat yards. The great demand for locomotives and cars for our roads, saw mill and sugar house engines, furniture, lathes, and other articles, and steamboat construction and repairs, with the undisputed health of our city, and our convenience to iron, copper, coal, timber, cotton, and hemp, render this, in the judgment of all, the most favorable opportunity for investment which has ever been offered. For further information address the undersigned. N. H. DOUGLASS, Mayor.

Mixing Chemicals please apply.

THE EXIT RIFLE.—This is a new breech loading and self priming arm. Its ease and rapidity of action is unequalled by any in use. Its method of securing the cartridge is complete and durable. The primer contains 80 of Fily's central fire, No. 12 caps, which can be exploded in 40 seconds. The primer is especially adapted to fowling guns, Colt's pistols, &c. Mackenzie's Automatic cut-off American, English, and French patents secured. This governor is the most economical in its first cost and space occupied, more certain and sensitive than any in use. It is especially adapted to marine engines. It is operated on a new principle, that of the variation of the current of steam in its passage into the cylinder. These inventions are on exhibition at office 17, Bank of Republic Building, cor. Wall street and Broadway.

SAW GUMMERS.—Manufactured at Sandy Hill, N. Y., by G. H. PRESCOTT.

CHALLENGE ANY MAN TO produce a Tenon Machine that can compete with mine at the approaching Fair of the American Institute, at the Crystal Palace, New York, on P. S. ARDWELL, Patentee. 33 Lake Village, N. H., 1855.

A FEW GENTLEMEN, thoroughly acquainted with the selling of Rights of Patent can find a very desirable opportunity for operation a large scale. None but experienced persons need apply to J. L. D., box 2627.

WANTED. An engagement as Assistant Civil Engineer, Designer of Machinery, or Manager of Engine or Machine Works. Address, post paid, W. S. H. V. B. North 7th street, between 2nd and 3rd, Williamsburg, N. Y.

BROAD LOOMS.—We have on hand twenty 8-4 Plain Looms, for cotton goods, with two shades which were made for a company, who, after ordering, made other arrangements. The Looms will now be sold at a great bargain. For full particulars, apply personally, or address "The Ames Manufacturing Co., Chicopee, Mass."

MACHINISTS, TOOLS.—Manufacturers, Mechanics and Railroad Supplies, Locomotive and Stationary Engines, Ashcroft's Steam Gauges, Boilers, Trip Hammers, Belting, Cotton and Woolen Machinery, Water Wheels, Pumps, Blowers, Wrought Iron Tackle Blocks, &c. FOSTER & LEACH, 25 Broadway, N. Y.

FOR SALE CHEAP.—Two 5-horse power Oscillating Steam Engines with Boilers; will work either together or separate. To be seen at 432 Pearl st. Inquire soon.

MARYLAND INSTITUTE EXHIBITION.—The public is reminded that the Institute's Eighth Annual Exhibition will be opened at Baltimore on Tuesday, 2nd day of October. The Hall will be ready for the reception of goods on Monday, 24 September. Articles intended for competition must be so entered, and must be placed in the Hall by Thursday night, 27th September. Goods to be sent to the Baltimore Steamship Line, from New York, by Merchants and Miners Line, from Boston, will convey goods to and from Baltimore to the Exhibition free of charge.

All articles deposited (whether for competition, or for exhibition merely) must be of American manufacture.—The only exception to this positive standing rule being in favor of valuable specimens in the department of the Fine Arts owned by parties not holding them as merchandise on sale. The rules and regulations, and blank forms of application for space, with every information concerning Exhibition, may be had at any time, of J. S. Selby, Actuary, at the Hall, or of the printer, on the 2nd day of September. Commodore J. Vansant, Thomas Swann, W. Abrahams, Geo. H. Rodgers, Thomas J. Clare, C. W. Bentley, W. P. Smith, T. J. Lovegrove, Thomas Trimble. SUPERINTENDENT—Jno. F. Meredith.

IMPORTANT INVENTION.—Patented August 14th, 1855. "Garratt's Metal" for Journal Boxes of all kinds. It is anti-friction, absorbs the oil, not liable to break, it can be made cheaper than either brass or Babbitt metal, and after many long and severe tests, has been found to surpass all other metals ever used for the purpose. For the purchase of either State, county, or shop rights under this patent, apply to JOS. GARRATT, Senr., Madison, Indiana.

C. L. GODDARD, No. 3 Bowling Green, New York, only manufacturer of the original steel ring, and tooth burring machines, and feed rolls, for first and second breakers, etc., of woolen carding machines.

MATTHEW LUDWIG, of Boston, Mass.—Will manufacture to order, his patent Tree Cutter. This machine is for sawing down trees, and the same into fire wood. One horse can easily drive and move it conveniently about in the forest. It also is provided with a pulley for driving thrashing and other machinery. Persons wishing to buy State's rights, may apply to the above named patentee.

PORTABLE STEAM ENGINES.—S. C. HILLS, No. 12 Platt st., N. Y., offers for sale these Engines, with Boilers, Pumps, Heaters, etc., all complete, and very compact. From 2 to 10 horse power, suitable for printers, carpenters, farmers, planters, &c. A 2 1/2 horse can be seen in store, it occupies a space 5 by 3 feet, weighs 1500 lbs., price \$240; other sizes in proportion.

CAPITALIST WANTED.—Who will, for an equal share of the profits, pay for the patents for a valuable improvement in marine and stationary steam engines, address T. J. JOHNSTON, 8 Spring street, Lawrence, Mass.

WROUGHT IRON PIPE, with screw connections, T's, L's, valves, &c. Lap Welded Boiler Flues, Galvanized Iron Tube and Fittings, manufactured and for sale by MORRIS, TASKER & MORRIS, Philadelphia.

LEONARD AND WILSON, dealers in Machinery, Machinists' Tools, Mechanics', and Manufacturers' Articles, and manufacturers of superior oak-tanned Leather Banding, 60 Beaver and 109 Pearl street, New York.

PATENT FOR SALE.—The undersigned desires to sell his patent Chuck for cutting barrel heads, to any person that will bring it into notice. The whole or any part of territory will be sold low for FRANKLIN FRUIT, Bunker Hill, Ill.

MACHINERY.—S. C. HILLS, No. 12 Platt street, N. Y., dealer in Steam Engines, Boilers, Planers, Lathes, Chucks, Drills, Pumps, Mortising, Fenoning, and Sa-h 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.

NO INVENTORS OF HOUSEKEEPERS' Utensils.—Parties having a suitable article for winter use (in families), and wishing to dispose of the patent can hear of a purchaser by addressing WILLIAM BURNETT No. 19 Wall street, Post Office Box, No. 4532.

WATER WHEELS.—Having had much experience in the manufacture of Water Wheels, we can furnish, on favorable terms, the very best wheels in use, (comprising several kinds,) for very low, medium, or very high falls, or for large, medium, or very small streams, and for any description of work. Please state, by mail the fall, amount of water, kind, and amount of business to be done, and we will send you circulars of reference, and state the kind of wheel best adapted to your wants. We also furnish to order, Shaiting, Gearing, Belting, Mill Stones, Portable Grain Mills, Saw Mills, and other machinery. Office 10, State st., Works 66 and 70 Albany st., Boston. GEO. T. McLAUTHLIN & CO.

THE PUBLIC ARE HEREBY Cautioned against purchasing (except of the subscriber) a fire regulator constructed with a lever across an air tight expansive vessel attached to a steam boiler, let the material which presses on the expansive vessel and up against the lever as a fulcrum, be called a piston or upright shaft, or by any other name, as I consider a fire regulator so constructed a direct infringement of a patent granted to me August 21st, 1847. TIMOTHY CLARK, New Haven, Conn.

VALUABLE INVENTIONS.—I have made patentable improvements in Straw Cutters, Machine for Sawing Marble Tapering, and Rakes to Harvesters; I will give one half of the same to any person who will secure them by patent. For particulars address AUGUSTUS FROST, Oroon, Me.

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 YOEK, N. Y. Office 67 Exchange Place, New York. No agents employed.

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 patent of J. W. Norcross, of date Feb. 12, 1850, for a Rotary Planing Machine. Rights in use of the Norcross patented machine can be purchased on application to N. W. NORCROSS, 208 Broadway, New York. Office for sale of rights at 208 Broadway, New York. Boston, 27 State street, and Lowell, Mass.

SAWS—PATENT Tempered and Machine-Ground of all kinds; Circular Saws manufactured on these improved principles can be used thinner and with less set, and run faster than any hitherto made. All sizes warranted perfectly even in thickness and temper, and made of the very best material. HENSLIAW & CLEMSON, 31 Exchange st., Boston.

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NOTICE.—LUMBER DEALERS, FARMERS, and others.—I, AUGUSTUS YOEK, Patentee of Steam Engines, for driving portable, circular, and up-and-down Saw Mills, Thrashing Machines, &c. Also for loading and discharging cargoes, pile driving, raising materials for Bridges, Buildings, &c. Engines, always on hand for sale. They are moved on any road by a team, without removing any part of the machinery. Manufactured by 13th street, Philadelphia. These Engines have been in use since 1820, and have given general satisfaction.

WELCH & GRIFFITHS' SAWS—PATENT Grinding Machines.—Having purchased from Mr. Wm. Southwell his patent right for grinding circular and other Saws, for which we have paid him a large sum, and we are the sole proprietors of this patent. We will reward any person giving information of infringements on the same. This is the only machine ever invented that will grind a saw perfectly even in thickness. They will require less set, will not heat while running, will saw smooth, save lumber, and keep an edge longer than any other saws made, and are not liable to become untrue. All our Saws are made from an extra quality of cast steel, imported expressly for our own use, at much higher cost than generally used for saws. We respectfully inform all manufacturers of lumber, that no saw will be sent from this establishment but what is of superior steel and workmanship; the temper will be found more even and uniform than any saw in use. Orders received at our Warehouse, No. 51 1/2 Broadway, Boston. WELCH & GRIFFITHS.

A. BELLY, Counsellor at Law, 52 Washington street, Boston, will give particular attention to Patent Cases. Refer to Messrs. Munn & Co., Scientific American.

VAIL'S CELEBRATED PORTABLE STEAM Engines and Saw Mills, Rogardus' Horsepower, Smut Machines, Saw and Grist Mill irons and Gearing, Saw Gummies, Ratchet Drills, &c. Orders for light and heavy forging and castings executed with dispatch. 8 ly LOGAN VAIL & CO., 9 Gold st., N. Y.

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 Rolling 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. Can sent to applications, and all mills warranted to give satisfaction.

POWER PLANERS.—Persons wanting Iron Planers of superior workmanship, and that always give satisfaction, are recommended to the New Haven Manufacturing Company, New Haven, Conn.

LATHES, PLANERS, and all kinds of Machinists' Tools of the best description on hand, and made to order by SHREVEY & BROS., Cumberland, Md., (on Baltimore and Ohio R. R., midway between Baltimore and the Ohio River).

ANDREWS & JESUP.—Commission Merchants, Cotton and Woolen Machinery, Steam Engines, Machinists' Tools, Belting, &c. Importers and Dealers in Manufacturers' Articles, No. 67 Pine street, N. Y.

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 lists giving full description and prices, address, "New Haven Manufacturing Co." New Haven, Conn.

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