

TO CORRESPONDENTS.

S. B. of Ind.—Imitation wines are now extensively made in the State of New Jersey from the juice of apples.

R. McK. of Ala.—There is no possible chance for a patent on your alleged improvement in plows.

C. C. of Conn.—Your improvement in water meters is a decided novelty in our opinion, and we advise you to send us a model of it without delay.

M. M. H., of N. C.—You do not appear to be aware of the fact that tubular instead of cylinder boilers are altogether used on ocean steamers.

W. L. Smith, Maxwell's Creek, Cal., is about to establish an extensive lumber business at that place, and desires to get the best ehingle machine in use, and also a machine for sawing boards, plank, etc.

J. B. C. of Tenn.—In your letter on the article describing the astronomical globe, you say, "one pole is confined by the support, while gravity attracts the whole machine towards the earth, and these two forces—the support and gravity—balance each other, and combined with the rotary motion of the globe, cause it to rotate horizontally."

E. A. J., of N. H.—Vulcanized india rubber or gutta percha would make a good roof but would be too expensive.

C. T., of N. Y.—You can procure one of Vandewater's wheels of Messrs. Sharts & Co., of Albany, N. Y.

L. P., of N. Y.—The numbers you want are all gone. Mr. C. of Tennessee has been preparing for a long time, a work on Turbines; we do not know when it may be published, but in all likelihood he will allude in it to those points wherein his opinions differ from the views of Mr. Francis.

J. C. R., of Mich.—Your views in the article you have sent, are the same as are entertained by those who believe in the nebular hypothesis, and which are so well described in Nichol's Lectures—excepting as it regards the electricity being the "essence of Deity,"—a wrong notion on your part, we believe.

L. L., of N. Y.—You will find an engraving of Sharp's Rifle in Vol. 5, No. 25, Sci. Am. The inventor resides in Hartford, Ct., we believe.

J. W. P., of Mich.—The proprietors of the Novelty Iron Work, in this city, are Messrs. Stillman, Allen & Co.

W. W., of Pa.—We undertake to publish a complete list of patents as they are officially reported to us by the Commissioner of Patents.

C. B., of Pa.—"The Microscopist," published by Lindsay & Blakiston, of Philadelphia, is the work you want.

J. H. S., of Md.—You have not given the subject sufficient attention.

N. P. B., of Ill.—It will be very difficult for you to keep the joints of your steam pipes tight. See receipts on Cements in another column.

L. T. W., of N. C.—Campbell Morrill's book on tanning will give you the book information desired; H. C. Baird, of Phila., is publisher.

S. H., of Phila.—We shall not be able to publish your article.

Russell & McFarland, of Oquaka, Ill.; and Lawrence N. Young, of Mill Village, Queen's Co., Nova Scotia, wish to correspond with manufacturers of the best shingle machine.

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

J. N., of N. Y., \$55; C. B., Sen., of Ind., \$20; J. J. S., of Mo., \$25; E. G., of Vt., \$25; Q. A. F., of Ill., \$25; C. G., of O., \$25; W. E. S., of N. Y., \$25; E. C. P., of N. Y., \$25; N. N., of Ill., \$30; J. R., of Ala., \$30; T. T. W., of Conn., \$30; E. S., of O., \$35; D. Z., of Ind., \$30; J. B., of Pa., \$10; C. F. B., of O., \$25; J. H. C., of Pa., \$30; J. M. C., of S. C., \$55; R. B. G., of N. Y., \$30; J. G. H., of N. J., \$30; J. B. H., of N. H., \$20; B. J., of Va., \$25; G. M. Jr., of Mich., \$5; J. W. M., of N. J., \$27; G. D., of O., \$30; J. S. T., of Conn., \$100; S. H. & M. C. W., of Pa., \$30; J. H. O., of Pa., \$25; B. T., of Mass., \$25; A. E. K., of Conn., \$25; L. B. A., of Pa., \$11.50; P. H. Van A., of M. F. G., of N. Y., \$30; W. D. U., of N. C., \$25; J. T. Y., of O., \$30; G. C. B., of N. Y., \$30; H. L., of N. Y., \$30; T. P., of Ala., \$25; E. A., of N. Y., \$30; M. & B., of S. C., \$35; S. B., of Conn., \$25; E. B., 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, March 23—

J. E. N., of Ind.; E. C. P., of N. Y.; Q. A. F., of Ill. W. E. S., of N. Y.; L. B., of Ct.; E. G., of Vt.; A. M. B., of Mich.; B. J., of Va.; J. W. M., of N. J.; G. M. Jr., of Mich.; J. B. H., of N. H.; J. H. O., of Pa.; L. F. B., of O.; J. B., of Pa.; L. & J. D., of Ct.; W. T., of Mass.; A. E. K., of Ct.; L. B. A., of Pa.; R. C. B., of Ill.; T. P., of Ala.; E. B., of N. Y.; H. B., of Ct.

Important Items.

TO THE UNFORTUNATE.—We are no longer able to supply the back numbers of the present volume previous to No. 27, except from 1 to 12.

MODELS.—We shall esteem it a great favor if inventors will always attach their names to such models as they send us.

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.

Terms of Advertisers.

Table with 2 columns: Line length and Rate. 4 lines for each insertion, \$1; 8 lines, \$2; 12 lines, \$3; 16 lines, \$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 insertion.

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 improvements should be first forwarded, which we will examine and give our opinion on their novelty, utility, and value. 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 long experience and great success in our first 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 Attorneys, 128 Fulton street, New York; 32 Essex Strand, London; 29 Boulevard St. Martin, Paris; No. 3 Rue Theresiensse, Brussels.

McNAH & CARR, 133 Mercer st., New York, manufacturers of their patented Globe Valves, a full description of which will be published in the Sci. Am. in a few weeks; also manufacture constantly all kinds of water steam, and gas cocks, oil cups, &c. &c. N. B. State County, and shop rights in manufacture the improved valve, for sale.

1856.—WOODWORTH'S PATENT Planing, Tonguing and Grooving Machines.—The subscriber is constantly manufacturing, and has now for sale the best assortment of these unrivalled machines to be found in the United States.

W. M. BURDON'S STEAM ENGINE WORKS, 102 Front street, Brooklyn, N. Y.—Engines from 4 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, &c. &c. 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.

CLARKE'S CHIMNEY SAFE FOR Churches, School-rooms, Offices, Dwellings, Shops, &c., is needed to improve the chimney. For ventilating purposes it is unrivalled. Wanted, a new rich design for parlor chimney safe. Rights for sale. Send for circulars. Apply to GEO. B. CLARKE, Patentee, 1* Leonardville, N. Y.

NEW INVENTIONS WANTED.—I will procure patents and pay all charges of introducing one or more original inventions in the housekeeping or stationary line for a share of the invention, or will purchase articles already patented. WM. BURNER, P. O. Box 4532, N. Y. City. Wanted, No. 47 Vol. X, Sci. Am. 30 2*

WOODWORTH PATENT Planing, Tonguing and Grooving Machines.—The subscriber is constantly manufacturing and has now for sale the best assortment of these unrivalled machines to be found in the United States. Prices from \$85 to \$1450. Rights for sale in all the unoccupied towns in New York and Northern Pennsylvania. JOHN GIBSON, Albany Planing Mill, Albany, N. Y. 30 12*

A. H. BARTLETT'S HOT AIR FURNACE Now ready, and for sale at the foundry of Johnson, Cox, Cameron & Co., Spuyten Duyvil, N. Y. This furnace excels in power and economy any ever heretofore offered to the public. All orders should be directed to the patentee, Spuyten Duyvil, N. Y. An engraving and description of this really valuable furnace was given in Sci. Am., Vol. X, No. 25. 30 3*

ENGRAVERS WANTED.—On plain and ornamental work, also on wood. Address or apply to E. F. BACON, Engraver, N. E. corner Clark and Randolph sts., Chicago, Ill., P. O. box 2248. 30 2*

ALL PERSONS ARE CAUTIONED against recognizing, in negotiations with Silas G. Randall, of this place (now East), a certain power of attorney given by me to him about a year and a half ago, as said power has been demanded, and is now retained against my wish. J. HERVA JONES, 30 3* Rockland, Ill., March, 1856.

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

RANDALL & JONES' Patent Double Hand Planting Machines.—J. Herva Jones, Inventor and proprietor of the patent for New York, Michigan, Wisconsin, Minnesota, and Northern Illinois. Over thirty, first premiums awarded. Over fifty thousand acres of corn were planted with them in 1855. Twenty acres have been planted by one man with one machine in less than eleven hours. I challenge any man with any implement whatever to a trial test, either on time, quality, or expense of planting, or all. I will give any person five thousand dollars who will produce its superior. I have cuts and descriptions of a new marker—my own invention—which will save much labor in cultivating, which I will mail free to any who purchase my Planters. Rights and machines for sale. J. HERVA JONES, 29 2* Rockton, Winnebago Co., Ill.

FOR CLARK'S PATENT Steam Boiler Water Feeder and Indicator, the only reliable apparatus for preventing explosions, apply to SHIVERICH, MALCOLM & CO., sole proprietors, 293 Broadway, room 14. N. B., all persons are hereby forbid making, using, or selling the above Feeder and Indicator, unless by permission of Shiverich, Malcolm & Co. Tobey & Sprout, sole Agents for the New England States, 31 Exchange street, Boston. 29 3*

THOSE SUPERIOR MACHINISTS' TOOLS.—Can only be obtained of Carpenter & Plann, foot of 30th st., East River, New York, supplying large orders, and have constantly on hand every variety and capacity, and warranted accurate and substantial in every respect. Also have on sale the entire stock of tools of a large machine shop; many nearly new, and selling very low. CARPENTER & PLANN, New York. 29 2*

D. HUMPHREY, Manufacturing Chemist, and dealer in all kinds of Ambrotype, Photographic, and Daguerrotype chemicals. Also all apparatus and goods used in the art. Price list furnished on receipt of a letter stamped. S. D. HUMPHREY, 540 Broadway, New York. 29 2*

THE AMERICAN PLATE GLASS CO. Having erected extensive works in East Brooklyn, (foot of North Sixth st.) are now prepared to execute promptly all orders forwarded to them, for Rough Plate Glass, for Sky Lights, Floor Lights, Pavements, Deck Lights for vessels, &c. Also an entirely new article possessing the properties and benefits of Granite, and Chaledon. This material supersedes Marble, in its superior quality and utility for the purpose of Flooring, Mantel Pieces, Table Tops, and Ornamental Architecture. All orders left at the Office of the Company will receive prompt attention. Office 420 Broadway, Rough Plate Glass in the Sheet at the factory, 1-4 in. 35c; 3-8 in. 35c; 1-2 in. 40c; 3-4 in. 60c; 1-1 in. 75c; 7-8 in. 80c; 1 in. 85c; 1-1 in. \$1.25. Terms cash in 30 days. 29 13*

PAGE'S PATENT PERPETUAL LIME KILN will burn 100 barrels of lime with 3 cords of wood every 24 hours, and save 50 per cent. in labor, &c. Kilns used by J. Locke, St. Louis; C. Crockett, Rockland, Me.; F. B. Sibley, Detroit, Mich.; Wm. Baldwin, Cherry Valley, N. Y.; John Sands, Armonck, Westchester Co., N. Y.; L. Thompson, Rochester, N. Y. 29 6* C. D. PAGE, Patentee, Rochester, N. Y.

STEAM PUMPS AND FIRE ENGINES.—Steam and Pumping Engines, for wrecking purposes, for Irrigation and Draining Lands, Deep Mining Shafts, Quarries, and Excavations, Railroad Stations, Factories, Public Institutions, Hotels, Gas Works, Steamers, &c. Also a large and improved class of Pumping Engines for supplying Cities, Towns, and Villages. Apply to H. R. WOODHINGTON, 25 Broadway, New York City. 25 13*

A. L. ARCHAMBAULT, Portable Steam engine Builder, 15th and Hamilton st., Philadelphia.—Saw Mill Engines on Wheels from 10 to 30-horse power. Also Hoisting, Pumping, and Pile driving Engines, from 3 to 30 horse power. 25 8*

H. WELLS & CO., Florence, Hampshire Co., Mass.—Manufacturers of double and single patent premium Circular Saw Mills, of various capacities and sizes, unsurpassed in point of Finish, Durability, and Utility. Morrison's Patent Shingle Machines, which give, shave, and joint perfectly, 60 shingles per minute.—Self-Setting, Shingle, and Lath Sawing machines. Carpenter's Patent Rotary Force Pumps, admitted the best in the United States. Saw Mandrels, Sets and Set Punches, Mill Gearing, Shafting, &c. Orders by mail will receive prompt attention, and Cut, Circulars and Price Lists furnished when desired. 25 6 eow*

DRAWING INSTRUMENTS.—The largest stock in the country, comprising our well-known German silver Swiss instruments, and German, French, and others Surveying and engineering instruments, warranted of the best construction and quality. Catalogues gratis. A. M. SELLER & WIRZ, 26 eow* 211 Chestnut st., Phila., Pa.

ENGINEERING.—The undersigned is prepared to furnish specifications, estimates, plans in general or detail of steamships, steamboats, propellers, high and low pressure engines, boilers and machinery of every description. Broker in steam vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic Self-adjusting Conical Packing, Faber's Water Gauge, Sewell's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, Machinery Oil of the most approved kind, &c. CHARLES W. COPELAND, 19 eow* Consulting Engineer, 64 Broadway.

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

ARTIFICIAL LEGS.—Palmer's Patent—Manufactured at 378 Broadway, New York, Springfield, Mass., and 437 1/2 Chestnut st., Philadelphia, by PALMER & Co.—These legs are universally regarded, and recommended, as an invaluable boon to all who have suffered mutilation by amputation, by all of the first surgeons in Europe and America; and by the several thousands of persons who best with them in their daily use. Pamphlets containing the most reliable information are sent gratis to all who apply for them. 25 6 eow*

MACHINERY.—S. C. HILLS, No. 12 Platt street, N. Y., dealer in Steam Engines, Boilers, Planers, Lathes, 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. 26 e3w

TO MANUFACTURERS AND MECHANICS.—Light rooms and steady power in any quantity, from one half horse to 50 horse, in a central position and at low rates. Facilities for exhibiting or testing new inventions, By Mr. GAUDU, 102 Walker st. 27 4*

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 of 1830. Orders received at our Warehouse, No. 48 (Chestnut st.), Boston. 12 6m* WELCH & GRIFFITHS.

ROCK DRILL.—The American Rock Drill Co. in vites 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. 16 of the Scientific American. Apply to R. H. LEAVITT, Agent and Treasurer of the A. R. D. Co., No. 1 Phoenix Building, Boston, 17 2m*

SCHENCK MACHINERY DEPOT—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. 26 8 A. L. ACKERMAN, Proprietor.

VAIL'S CELEBRATED PORTABLE STEAM Engines and Saw Mills, Bogardus' Horsepowers, Sash Machines, and Great Mill Iron and Gearing, Saw Goggles, Ratchet Drills, &c. Orders for light and heavy forging and castings executed with dispatch. LOGAN & LIDGERWOOD, 13 1/2 y* 9 Gold st., N. Y.

WOODWORTH'S PATENT Planing, Tonguing, Grooving Machines.—Double machines plane both sides, tongue, and groove at one and the same time, saving one half of the time when lumber is required to be worked on both sides. Large assortment constantly on hand. Also steam engines and boilers of the best quality. Warranted to give entire satisfaction to purchasers. JOHN H. LESFER, 26 8* 87 Pearl st., Brooklyn, L. I.

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, 75 cents per year, payable quarterly in advance. Out of New York State, but within the United States, \$1.50 per year, payable quarterly in advance. MORSE & BRADY, Publishers, 4* Corner of Fulton and Nassau sts.

NORTH AMERICAN MACHINE AND COOP ERAGE Co., at Elmira, Chemung Co., N. Y.—Manufacturers of Trapp's Patent Barrel Machines, being the only establishment in the world that manufactures machinery for all varieties of cooper work, viz: Tight Barrels, such as Pork, Beef, Whiskey, Beer, Fish, Oil, &c.; of Larders, Beef Ties, Butter Firkins, White Lead Kegs, Flour, Salt, and Lime Barrels. Stave and Heading Saws constantly on hand. Also Rights under Trapp's patent for sale. M. H. FERRIS, Agent, Elmira, N. Y. 25 6*

BOILER INCrustATIONS.—No scale will form in the boiler when Weissenborn's Patent Incrustation Preventer is used. The same is the apparatus is the best Heater that can be obtained. Apply to W. S. GRANT, Delmonico's Hotel, New York City. 25 12*

FILMER & CO., Electrotypers, and Manufacturers of Electrotype Materials, 125 Fulton st., N. Y. Molding Presses, Batteries, Cases, Backing Pans, Shaving Machines, Metal Kettles, Planes, Blocks, Building Irons, &c., &c., on hand, or furnished at short notice, and at moderate charges. Adams' Improved batteries and black-lead machines also for sale. 23 14

LINE 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*

PATENT ALARM WHISTLE.—For Speaking Pipes. The right of a limited number of the Southern States, of this valuable patent, for sale on reasonable terms. Apply to W. OSTRANDER, No. 57 Ann street, N. Y. 29 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. 29 17

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. F. S. PEASE, 61 Main st., Buffalo, N. Y. N. B.—Reliable orders filled for any part of the United States and Europe. 19 17

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, 205 Broadway, New York. Office for sale of rights at 205 Broadway, New York Boston, 27 State street, and Lowell, Mass. 19 17

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. 29 17

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. 19 17

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 17

HARRISON'S GRAIN MILLS.—Lates 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, 19 17