

TO CORRESPONDENTS.

J. B. C., of Tenn.—We are awaiting the report of Mr. Co. about the Cloud Engine. It is true, as you observe, that the great amount of power required to inject the necessary quantity of air for hot-air engines is the cause, and always will be the cause of their failure.

E. B. F., of Ill.—A centrifugal gun for shooting balls by mechanical force, is not new; such a gun was experimented with in this city about ten years ago. The expense of working such a gun would be greater than to discharge the balls with gunpowder.

G. C. S., of N. Y.—We know nothing of a work called Grier's Mechanic's Calculator.

W. O. G., of Ct.—If you put one coil of pipe around the bottom of your tub, and have it perforated with holes, you can boil your water quicker than by the large coil without perforations. The use of one coil is preferable for the reason that it distributes the heat much better, and prevents the shock attending the letting in of steam in a large volume.

W. V., of N. J.—We can furnish you no information about turning calender rolls used in the manufacture of paper. We do not remember to have published anything on this subject. Cannot account for the tardy delivery of your paper. It is regularly mailed from our office and ought to get 12 miles in less time than a week, but the Post Office Department is sometimes sadly out of joint in its postal operations.

S. H., of Iowa.—The sketches of your method of tightening up bed cords have been examined. We do not remember to have seen the same thing before, although you must bear in mind that applications for such devices are always attended with much doubt, owing to the fact that such has been done in this line. Application our fee for preparing it would be \$25. The patent fee is \$20. See circular about model, etc.

W. J. L., of Mass.—The experiment of producing sparks of electricity, accompanied by a crackling noise, by rubbing down a cat's back, is known, we presume, to every one at all familiar with this feline quadruped. It was one of the curiosities of our juvenile days.

J. P. A., of Ga.—Blackie & Son, 117 Fulton st., N. Y., sell "Reid's Horology," which describes the machinery of watch and clock making. The art of polishing steel, silver, and gold cannot be learned but by actual observation. Emery wheels and buff leather wheels are used in polishing, as well as buff and emery straps. The burnishing or finishing operation is performed by a fine agate burnisher.

C. H. R., of Me.—Your arrangement for admitting steam through a puppet valve appears to be new and patentable. Should you decide to make an application send us a model.

J. A., of Pa.—Models sent to the Patent Office cannot be permanently withdrawn. The notice to which you allude has reference to models sent to our office, and upon which no applications are made for patents. Yours does not come within this category.

J. C. R., of Mich.—We have paid no attention to the pretensions set up by the reputed discoverer of a new language. The subject is scarcely worth a serious consideration, as it is wholly impracticable.

J. J., of Mich.—We can understand how a log may be made to float, as you have described it, by chaining it to a lighter timber, but that is not an exact disposal of the question.

Phillip Gross, Boonville, Mo., is a cooper and has heard a good deal about a shaving machine driven by one horse power, which costs from \$75 to \$300. Mr. Gross wishes to hear directly from the manufacturer of such a machine.

J. C. R., of Pa.—Minnie, the inventor and patentee of the celebrated fire-arm which bears his name, is a lieutenant in the French army, and is stationed in command of the fortress of Vincennes, near Paris. He is continually trying experiments for the benefit of his country. His rifle cannot be obtained in this country that we are aware of.

G. I. D., of N. Y.—During the holidays, from Thanksgiving till after New Years, patent business is always slack with us, and but little is generally done at the Patent Office in acting upon cases. It is an excellent time however, for you to present your several inventions, for the papers can be prepared by us this month without any delay. If your friend should come down with his model, you can send your models, with the Government fees—\$3 on each—by him, and the papers we will prepare at once, and probably be able to send them for execution by Mr. H. when he returns. Assure Mr. H. that we will prepare his specifications and drawings so that we can execute them at our office while he remains in the city.

L. A. B., of N. Y.—We have examined the sketch and description of your improved wheel for ascending inclines, and we are of the opinion that it embraces patentable features, as we never saw or heard of anything like it, but as to its practicability we are by no means certain. We should doubt somewhat, and yet it may possibly prove to be free from objection. All we can say in regard to it is, that we think it patentable.

J. M. H., of N. H.—A cupping apparatus constructed in the manner proposed by you, could not in our opinion be patented. It is the mere application of the air pump principle to cupping, without involving anything novel in its contrivance. The idea, however, is not new, as the same thing has been done before.

J. O. M., of N. Y.—A cheap and simple water measurer would be a desirable improvement.

L. Q., of Canada.—No provision is made in our laws for a foreign subject securing an invention in this country, by a caveat.

P. & Co., of O.—Fairbanks & Co., Broadway, this city, sell two kinds of coin scales—Frommel's and Allander's—the first is retailed at \$4.50, the latter at \$1.50, and we perceive no superiority in one over the other.

W. F., of Tenn.—If you put in a good turbine water wheel, you will be able to get more work out of it than from your fluter wheel. You have plenty of water to get eight horse power out of a good wheel. Any of those illustrated in our columns will answer your purpose.

B. A. A., of Ind.—So far as we can learn, the chief difficulty with the wire fences that have been put up is their miserable construction. Being badly erected, a prejudice has grown up against their use. The expansion and contraction is a small item of disadvantage. Your device for preventing the same is good, and probably patentable. You must determine as to the propriety of applying for a patent. Water will rise of itself in a pump stalk out of which the air is exhausted, to a height of thirty-three feet. In pumping it, the power spent is in exhausting the air.—The water follows the piston as fast as it rises. For every foot above thirty-three the column of water must be raised bodily, like any other weight, and the power must be in accordance.

W. S. S., of Mass.—It would not be patentable to fit up the interior of a car in the manner you propose. It has been before suggested to us, but aside from this, the mere production of saloons or state rooms for sleeping on cars could not be viewed in the light of a patentable invention.

O. F. S., of N. H.—The paper on glycerine made as described, was read before the American Scientific Association, and was taken from the Report of their proceedings. In all likelihood, the steam required must be superheated—dry steam—not wet steam.

E. H. H., of Ind.—Your governor is what is known as a chronometric governor, and was invented many years ago by a Frenchman, whose name we forget. We have had the same thing submitted to us more than once within a year or two.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, Dec. 15, 1865.—

J. S., of Ind. \$15; W. P., of Ct. \$30; C. G., of Ky. \$25; C. B., of Pa. \$30; J. H. Jr., of Wis. \$25; W. A., of N. Y. \$40; J. H. P., of N. Y. \$25; E. H., of N. Y. \$30; C. G. G., of N. Y. \$10; L. B. P., of O. \$25; E. T., of Ct. \$25; P. McM., of N. Y. \$20; S. I. T., of N. Y. \$25; J. W. H., of R. I. \$55; C. B., of Ind. \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Dec. 15.—

L. B. P., of O.; J. W. H., of R. I.; J. S., of Ind.; C. G., of Ky.; J. H. P., of N. Y.; S. I. T., of N. Y.; W. A., of N. Y.; E. T., of Ct.; C. B., of Ind.

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.

GILLESPIE'S LAND SURVEYING.—Prof. Gillespie, C. E., of Union College, is the author of a new book, published on the above subject, by D. Appleton & Co., of this city. This is a small and able treatise on land surveying, comprising the theory developed from five elementary principles, and the practice with the chain, the compass, the theodolite, the plane table, &c. It is illustrated with four hundred engravings and a magnetic chart of the United States. While teaching surveying as preliminary to a course of Civil Engineering, he found that none of the books, in use suited his purpose, and he was compelled to teach the subject in a combination of familiar lectures on its principles, and as exemplifications of its practice. His notes, continually swelled in bulk, and gradually became systematized, until in 1851 a volume embracing a synopsis of them was given to the public, which has been highly prized. The present volume is a full and complete treatise, embracing all contained in his previous work, and does honor to its author for its compactness, and the perspicuity of its demonstrations. The publishers derive credit for the neatness of the typography, and the general contour of the book—it is well printed, and the matter arranged with great care.

THE KNICKERBOCKER.—Old Knick for this month is sentimental, practical, historical, graphical, satirical, and musical, as usual. It contains a friendly criticism of Longfellow's recent poem "Hiawatha," which has caused and is causing so much criticism, pro & con, among the literati. "The Last Siege of Jerusalem," by Rachael A. Ackerman, is a fine poem. The Editor's Table smokes cheerfully with a fine feast of wit and humor.

FRANK LESLIE'S ILLUSTRATED NEWSPAPER.—This is the name of a new weekly illustrated journal on the plan of the London Illustrated News. It is a newspaper record of all the principal occurrences of the day, the most prominent incidents being pictured to the eye by a gray-toned illustration. In the number before us there is, for example, an interesting printed description of Dr. Kane's exploits in the Polar regions, illustrated by hands-me pictures of Arctic scenery. Here's Spiritual Machinery, as shown by him at the Broadway Theatre, during his recent lecture, is also engraved. There are a number of other very interesting engravings. The whole specimen, both in artistic, literary, and typographical appearance, is splendid. Single copies 10 cents, \$4 a year. Leslie, publisher, 14 Spruce st., N. Y.

THE COACH MAKER'S MAGAZINE.—For December, by C. W. Saladee, of Columbus, Ohio, contains three large plates of illustrations, besides a number of wood cuts. With this number the first volume is concluded. We are happy to see that Mr. Saladee has been cheered by its success, and that he goes forward with animation in preparing for his next volume.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, Price. 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 inserting.

FRANZHOFF'S 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 terms, or its equivalent, in the three great industrial languages.—For sale at the Scientific American Office.

BREAST WATER WHEELS.—For sale, three, three Wrought Iron Under-shot Water Wheels, one 14 feet diameter and 3 feet wide, the other two about 12 feet diameter and 21-2 feet wide. Either can be made into breast or over-shot wheels at little expense. Terms moderate. Apply to E. WILKINSON, New Haven, Ct. 15 6*

THE AGENT for the sale of the English patent right of C. Cornell Brick Making Machine, the most superior machine in use, may be seen, together with the model, at Lovejoy's Hotel, N. Y. Prompt attention given to any communication addressed to the Agent, S. T. ALTHEWS, Lovejoy's Hotel. 1*

WANTED.—Four or five traveling and stationary agents, to sell patents and machines of several late improved agricultural implements needed by every farmer. For particulars apply to JESSE URMY, Wilmington, Del. 15 2*

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-hundred of all the Patents issued each week are on cases which are described at this Agency.

An able corps of Inventors, 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 party on cases when 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 Attorneys, 124 Fulton street, New York; 32 Essex Strand, London; 29 Boulevard St. Martin, Paris; No. 3 Rue Therassienne, Brussels.

ALARM ATTACHMENT LOCK.—Patented May 1855.—This Lock is manufactured in Rochester, N. Y., by the inventor himself, and under his own directions, and is suitable for Trunks, Doors, Iron Safes, or any other place where a lock is needed—it is made in the very best style and workmanlike manner—is perfectly safe to the owner, but rather dangerous for the thief. Responsible Agents are wanted for the sale of the same, and also the right in the United States. Any body wishing to invest capital in a profitable business, will do well to apply, by mail or otherwise, to Messrs. SCHNEIDER & SCHUBERTS, Gio. e. Building, Rochester, N. Y. 1*

MECHANICS' TOOLS.—For cooper, h e and ship carpenters, millwrights, coachmakers, blacksmiths, and miners. Also drilling, mortising, and boring machines, turning lathes, ratchet, and hand drills, Spear & Jack on's pit mill, cross-cut, hand, and rack saws, and all the assortment of founders and machinists' hardware. Files, screws, rivets, nuts, washers, &c. &c., for sale by CHAS. S. LITTLE, 13 and 34 Fulton st., N. Y. 1*

THREE GOOD JOURNALS FOR 1856!—Well adapted to all readers in every family. LIFE ILLUSTRATED—A First-class Family Paper, devoted to News, Literature, Science, the Arts, to Entertainment, Improvement, and Progress. Published weekly at \$2 a year.

THE WATER-CURE JOURNAL.—Hydrophaty, its Philosophy and Practice. Physiology, Anatomy, and the Laws of Life and Health. \$1 a year.

THE PNEUMOLOGICAL JOURNAL.—Devoted to all those Progressive measures for the Elevation and Improvement of Mankind. Illustrated. \$1 a year. For \$3 will be sent a year. FOWLER AND FOLS, 38 1/2 Broadway, New York. Sample gratis. Agents wanted. Legit now! 144

PROF. ROBERT HARE'S Great Book—with engravings illustrating the Dr.'s ingenious mechanical inventions to detect deception, and scientifically demonstrate the true agent involved in the so-called spiritual manifestations. Price \$1.75, postage 25 cents, just published by PARTRIDGE & BENTON, fronting the Tabernacle, No. 342 Broadway, N. Y. 142*

RAILROAD SHUTTERS FOR STORES.—An improvement in the above line was patented August 28th, 1855. Those wishing to use this improvement can be accommodated on reasonable terms by applying to the patentee and manufacturer, D. ROBMAN, No. 7 Jackson st., Cincinnati, Ohio. 144*

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 Surveying Instruments, Catalogues gratis on application. A. M. S. LEE & WIRZ, 211 Chestnut st., Philadelphia. 146*

1855 & 1856.—WOODWORTH'S PATENT Planing, Tonguing and Grooving Machine.—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 \$30 to \$70. Rich's office in the unoccupied room, New York and Northern Pennsylvania, JOHN GIBSON, Planing Mills, Albany, N. Y. 143*

D. BARNETT, Malleable and Gray Iron Works, Hamilton, corner McWhorter street, Newark, N. J. Orders promptly attended to. 910*

JAQUARD MACHINES.—With Harness complete and ready to receive the warps, built on the most improved plan, for the manufacturing of figured Goods of every description. Also Ribbon Looms and Card Punching Machines made to order. W. P. UHLINGER & CO., Germantown Road and Oxford st., Phila. 144*

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 cause, 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 a straight 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. 123m* 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 give with the grain of the wood, and produce perfect shaves 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. 116 eow*

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. 3 e3w

NOTICE TO PLOW MANUFACTURERS.—J. JOSUA GIBBS, of Canton, O., has invented a machine for Grinding and Polishing plows. By addressing the patentee, a cut and directions for making and using the same will be forwarded free. Also the term of three months will be granted to test its utility at advantages. Cost for erecting the machine will not exceed \$15. 128*

OIL SAVER.—Save 75 per cent of your oil by using DeValan, Wood & Hancock's Patent Oil Saver. For particulars and right to use in machine shops, factories, &c., and on railroads, apply to S. C. HILLS, 12 Platt st., New York. 12 10

VARIABLE LIBERATED PORTABLE STEAM Engines and Saw Mills, Bogardus Horsepower, Smut Machines, Saw and Grist Mill Irons and Gearing, Saw Gummers, Ratchet Drills, &c. Orders for light and heavy forging and castings executed with dispatch. VAIL & LIDGERWOOD, 9 Gold st., N. Y. 13 1y*

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 right, under this patent, apply to JOS. GARRATT, Senr., Madison, Indiana. 133m*

\$500 TO \$10,000—GREAT INVESTMENT.—Any person desirous of investing a large or small amount in a patent right, that the profits of which will clear the whole cost in one month's sales. Can find an opportunity by addressing Box 2,627 this city. 14 4*

MACHINISTS' TOOLS.—Meriden Machine Co. have on hand at their New York Office, 123 Gold street, a great variety of Machinists' Tools, Hand and Power Punching Presses, Forcing Pumps, Machine Lifting, &c., all of the best quality. Factory West Meriden, Conn. 2 13*

W. P. N. FITZGERALD, Counselor at Law—has been appointed Principal Examiner in the U. S. Patent Office—has removed from Washington, D. C. to the City of New York, 271 Broadway, (corner of Chamblin 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. 110

WATER POWER FOR SALE.—8 hours ride from the city of New York, near the beautiful and thriving village of Owego, on the New York and Erie Railroad. The wheel is 11 feet diameter, 5 foot bucket, building 75 by 25, two stories high. For particulars apply to HARVEY CHURCH, Troy, N. Y., or H. H. NASH, Owego, N. Y. 8 8*

MACHINISTS' TOOLS.—Manufacturers, Mechanics and Railroad Supplies, Locomotive and Stationary Engines, Ashcroft's Steam Gauges, Lathes, Trip Hammers, Belting, Cotton and Woolen Machinery, Water Wheels, Pumps, Blowers, Wrought Iron Tackle Blocks, &c. FOSTER & LEACH, 313* 23 Broadway, N. Y.

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. 41*

75 CENTS A YEAR.—Or 16 months for \$1. THE NEW YORK WEEKLY SUN is now sent to subscribers at the following very low rates, payable in advance.—One copy, 3 months, 25 cents; 6 months, 50 cents; 1 year, 75 cents. 10 months, \$1; 3 copies 1 year, \$2; 8 copies, \$5; 15 copies, \$8; 25 copies \$15—with engravings.—The postage within the State is only 13 cents a year—out of the State 25 cents a year. No traveling agents are employed. Specimen copies sent gratis. All letters should be post paid and directed to MOSES S. BEACH, Sun Office, N. Y. 4

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 postoffice in the State of New York, 75 cents per year, payable quarterly in advance. Out of New York State, but within the United States, \$1.06 per year, payable quarterly in advance. MOSES S. BEACH, Publisher, Corner of Fulton and Nassau sts. 4

IMPORTANT TO ENGINEERS AND MACHINISTS.—NOTICE.—Those wishing to obtain the genuine articles of Metallic Oil and Grease, should order their orders direct to the manufacturer, AUGUSTUS LOCKNER, Office 67 Exchange Place, New York. No Agents employed. 16m*

NOTICE.—The Supreme Court of the U. S., at the Term of 1863 and 1864, having decided that the patent granted to Nicholas G. Norcross, of date Feb. 12, 1860, 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, 238 1/2 Broadway, New York. Office for sale of rights at 208 Broadway, New York. Boston, 27 State street, and Lowell, Mass. 42 6m*

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. 104*

ROWEY PLANERS.—Persons wanting Iron Planers of superior workmanship, and that always give satisfaction, are recommended to the New Haven Manufacturing Company, New Haven, Conn. 404*

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. 23 1y

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 for cash or approved paper. For cutting giving full description and prices, address, "New Haven Manufacturing Co., New Haven, Conn." 40 4*

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. 131*

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 1f