Scientific American.



F. N. B. of Wis .- Napier's Electro Metallurgy, pub lished by H. C. Baird, of Philadelphia, will answer your

purpose, we think.
G. F. H. of N. J.—We have been informed that alcohol will not affect india rubber, it contained in a bottle of that substance. You can make india rubber liquid by d solving it in naptha or turpentine. Cut it in fine shreds, and let it steep for about ten days in a close vessel, stir ring it occasionally. You can use it to unite the edges of india rubber.

G.T. of Pa.—Our common sumac should be dried thoroughly before it is ground. Bogardus' mills will grind it as fine as you desire. The sumac employed by dyers and morocco dressers, is not our common kind, but the Sicily sumac, which is imported. Quercitron bark is the inner rind of the tree, and must be thoroughly dried for exportation. It is ripped or rasped in mills suited to the purpose, not ground fine. There is no published work on the subject of preparing dye drugs. Oliver Evand Millwright's Guide is a good work on the subject of

R. C. of Md -If you had submitted yoursketch to us at the proper time, we should have advised you that the propeller was not new. We published the samething in Vol. 5 of the Sci. Am. See "History of Propellers and Stemm Navitation." We are surrprised that any agent at all familiar with the subject should have encouraged you to believe it to be new and patentable. We

cannot do anything for you in the matter.

S. L. G. and others.—We regret that we are no longe able to supply Nos. 1, 6, and 9 of this volume.

E. H. D. of Mass.-We have read your letter-it is somewhat long-and have examined your sketch of a re petual motion water wheel. The machine will not operate. Of this you can easily satisfy yourself. Your calculations are based on wrong premises. You can easily test them by an experiment.

A. B. of Cal.—From your description we cannot understand how your electric engine is made. Rotary electro magnetic engines are the most common. We have seen a number of them, and have illustrated and described them in former volumes of this paper.

E. C. of Mass.—We think your improvement in pumps embraces novelty of a patentable character, as we have no recollection of anything like it. You must bear in mind, however, that this is a very difficult class of cases.

An invention of general utility usually calls out a great amount of genius. This is especially the case with pumps There are many patents on them, hence the chances are less encouraging

C Y. H. of Va.—Air doubles its volume by 491 degree

A. M. S., of Pa.—You should examine Parker's patent and then judge if your wheel infringes it. His patent for giving the water a whirling motion before entering the wheel, expired in 1350.

J. B. D., of Ohio.—If an invention has been in public use for more than two years previous to the application for the patent, the law declares the patent to be invalid. A court would so decide in case the evidence clearly established the fact of prior use.

B. F. S., of Ind.—A saw having teeth on both edges for

the purpose of cutting both ways, is not new. Such saws are well known. It would be no more patentable to cut teeth on both edges of a saw blade than it would to grind wo edges on a knife blade.

J. E. C., of N. Y.—Wood at two dollars per cord is cer-

tainly cheap, and steam power would be economical for your purpose with such fuel.

E. H. McA., of Iowa.-In our last number there was a brief description of an engine operated by compresse air which has been in successful use for six years, but it

requires a steam engine to compress the air.

G. D. W. of Iowa.—Burning fluid is made with alcohol and camphene; we do not consider it very safe to use in a family. Liquid india rubber is the best substance with which we are acquainted for rendering boots and shoes water tight. Several coats of linseed oil varnish will render leather water proof; each coat must be allowed to dry before the next is put on. Mahan's Civil Eng-neering, published by J. Wiley, this city, is a good work.

A. Z., of Ill.—India rub ber dissolved in naptha or turpentine makes an elastic cement. You can combine it with chalk, and white lea d. It may suit your purpose.

E. H. P. & Co., of Ohio.—A first rate work on Gri-t Milling containing full information written up to the present day, would be a desideratum. The only work in print on the subject is the Miller's Assistant, published by H. C. Baird, of Philadelphia.

F. G. R., of Va.—We are not acquainted with any pe-culiar machine or furnace to make charcoal from corn cobs, but a common rejort for making gas will answer the purpose. It will not be easy to kyanize yellow pine plank, because it contains so much resin. We cannot spare the numbers to which you refer.

L. P, of N. Y.—Carriage brakes operating in the man ner you describe are not new. If you have access to volume 4 of the Sci. Am. you will find an engraving of one substantially like yours. We have frequently had

Moneyreceived at the Scientific American Office on account of Patent Office business for the week ending

Saturday, Nov. 22, 1856:—
J. S. B. of N. II. \$100; H. K. of Mass. \$25; G. F. S.W of S. C. §33; J. D. S. of O. \$30; W. L. V. of N. Y. \$10; W. S. of L. I. \$31; E. G. A. of Mass. \$50; R. J. N. of Ga. \$30; E. G. of La. \$230; J. L. of Pa. \$30 G. B. McC. of Me. \$:55; G. W. R. of O. \$5; T. C. of Mass. \$27; C. T. W. of O. \$20; W. T. of Tenn. \$30; D. P. F. of Wis. \$30; J. B. of Wis. \$110; D. L. J. of Mich. \$.5; N. R. of Pa. \$30; C. W. of Me. \$55, M. W. of N. Y. \$30; J. B. of Pa. \$10; F. J. II. of N. J. \$30; W. F. of Mass. \$3); E. F. F. of Vt. \$55; G. W. B. of Vt. \$25; J. P. C. of Tenn. \$30; J. C. of N. Y. \$57; J. A. of N. Y. \$25; A. F W. of N. Y. \$2.5.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent

Office during the week ending Saturday, Nov. 22:—

L. K. S. of Conn.; T. M. of Pa.; M. C. R. of Ohio; W L. of N. Y.; J. A. of N. Y.; H. K. of Mass.; E. S. S. of Conn.; G. B. McC. of Me.; T. C. of Mass.; J. W. R. of O.: D. L. I. of Pa.; J. B. of Wis.; D. W. of N. W. of N. Y. G. W. B. of Vt.; J. C. of N. Y. D. L. I. of Pa.: J. B. of Wis.: D. W. of N. J.: A. F.

Important Items.

COMPLETE SETS OF VOLUME XII EXHAUSTED. regret that we are no longer able to furnish complete sets of the present volume. All the back numbers except 1,6, and 9, we can yet furnish, if new subscribers desire to commence back to the beginning of the volume; but unless they specially request to the contrary when making their remittance we shall commence their subscription from date of receipt of the order.

Subscribers to the Scientific American who fail to get their papers regularly will oblige the publishers by stating their complaints in writing. Those who may have missed certain numbers can usually have them supplied by addressing a note to the office of publica-

INVENTORS SENDING MODELS to our address should always enclose the express receipt, showing that the transit expenses have been prepaid. By observing this rule we are able, in a great majority of cases, to prevent the collection of double charges. Express companies, either through carelessness or design, often neglect to mark their paid packages, and thus, without the receipt to confront them, they mulct their customers at each end of the route. Look out for them.

PATENT LAWS AND GOIDE TO INVENTORS.—This pam phlet contains not only the laws but all information touching the rules and regulations of the Patent Office Price 12 1-2 cents per copy. A Circular, giving instructions to inventors in regard to the size and proper construction of their models with other useful informat tion to an applicant for a patent, is furnished gratis a this office upon application by mail.

RECEIPTS—When money is paid at the office for subscription, a receipt for it will always be given; but when sub scribers remit their money by mail, they may consider the arrival of the first paper a bona fide acknowledgment of the receipt of their funds.

PATENT CLAIMS—Persons desiring the claim of any in vention 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 date of patent when known, and enclosing \$1 as fees for copying.

GIVE INTELLIGIBLE DIRECTIONS—Weoften receive let ters with money enclosed, requesting the paper sent for the amount of the enclosure but no name of State given and often with the name of the post office also omitted Persons should be careful to write their names plainly when they address publishers, and to name the post of fice at which they wish to receive their paper, and the State in which the post office is located.

Literary Notices.

Westminster Review—The number of this able review for the present quarier contains eight original essays, besides the usual criticisms on "contemporary literature." The review of the life of George Porster, the famous German naturalist, is full of touching incidents and thrilling interest. Idmerson's English Traits are reviewed with a gentle hand. All the articles are good.—Published by Leonard Scott & Co., No. 54 Gold street, this city.

GREGORY'S INORGANIC CHEMISTRY—The fourth edition of Prof. Gregory's Handbook of Inorganic Chemistry has just been published by A. S. Barnes & Co., John street, this city. It is the most complete work on the subject now published, containing as it does the Physics of Chemistry, by Prof. Sanders, of Cincinnati. It is written up to the present state of chemical science, and is a most valuable acquisition to our scientific literature. It contains treatises on heat, light, and photography. No student can do without it. It is written in a vigorous style, [comprehensive and brief. Dr. Gregory possesses the power of saying a great deal in a very few words.

Terms of Advertising.

Twenty-five cents a line each insertion. We respect fully request that our patrons will make their adver-tisements as short as possible. Engravings cannot be admitted into the advertising columns.

All advertisements must be paid for before insert

IMPORTANT TO INVENT-ORS.

ORS.

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 afteen, 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 thortest notice, while the experience of a long practice, and tacilities which few others possess, we are able to give the most correct counsels to inventors in regard to the patentability of inventors placed before us for examination.

Private consultations respecting the patentability of in-

tive 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 propressions, 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.

MEKERMANN'S Patent Universal Lathe

NECKERMANN'S Patent Universal Lathe NECKETMANN'S Patent Universal Lathe manufacture of the above article, (illustrated in No. 51, Vol. 11, Scientific American, and for which a silver medal was awarded at the late Pennsylvania State Fair) will be sold cheap. Persons desiring to engage in the business will do well to communicate before the 1st of January next, to the patentee,

M. NECKERMANN,

1* Lawrenceville, Alleghany Co., Pa.

OR SAI,E—A second-hand 5-horse power engine and 15-horse boiler, price \$250. Inquire at EDGAR FARMER & CO, No. 21 Cortlandt st., N Y.

ANTED—A man with a capital of \$1,500 or \$2,000. to engage in a new, safe, and profitable business For further information please address,

1* L. N. LELAND & SON.

R. STAFFORD'S FAMILY RECEIPT
Book, Contains 150 new and practical Household Book, Contains 150 new and practical Household Receipts. An account of the most prominent diseases—what produces what will cure, and way. Illustrated by 25 large and comprehensive anatomical engraving, This book also contains a list of nearly 59 different subjects comprising inventions, discoveries, and information which, in the opinion of the London Society of Arts, are now required by the public and for which they offer valuable premiums. This book also contains much other valuable information for mechanics, farmers, and others. The above book will be sent free of postage on receipt of Ten cents or three stamps, by J. R. STAFFORD, Practical Chemist, No. 16 State st., New York.

cal Chemist, No. 16 State st., New York.

**DOSTON HALL OF ARTS—A permanent Industrial Exhibition for new inventions, raw materials, manuactured fabrics, &cc., will be opened in a building sanding near the United States Hotel, with a front of 210 feet on Lincoln st. to the east, and 50 feet on Essex st., to the north. The lower story is occupied by elegant stores, and the two upper stories, each life feet in light, and comprising together more than 20,000 square feet of floor, will be occupied by the exhibition. Both rooms have an abundance of light on three sides. Terms of Exhibition—Each exhibitor not occupy ing more than three square feet of space will pay a rent o. \$4 per amuum, and for each additional square foot, \$1. This rent will be payable quartery in advance. For every dollar thus paid, the exhibition will receive ten tickets, each giving admission to one person. Every exhibitor will be allowed free admission for himself, and to keep in attendance a person or persons necessary to take care or his exhibition, but not to introduce visitors without tickets. The price of a single ticket, admitting one person, will be 25 cents. The Hall will be ready for the reception of goods designed for the exhibition early in December, of which notice will be given; and it is hoped that the space will be occupied to the exhibition will be in operation by Jan. 1, 1857. Those who would secure space should make application, by letter, to the Superintendent, stating the nature of the articles to be exhibited and the amount of space required; or after the 20th of December at the Hall of Arts, corner of Essex and Lincoln sts., entrance in Essex st. EMBER B. PAY Proprietor.

EMBER B. EAP Proprietor.

ELIZUR WERGHT, Superintendent, 13 Avery street, Boston, Mass.

POPE MAKERS should get particular information about a very valuable invention. The Empire Rope machine (patented July last by T. G. Boone) occupies not 2: inches square, make: superior rope twice as last, with not half the power required for other machines.—Such are facts. Address,

12 2*

212 Broadway, N. Y.

TOWER'S PATENTICE CREEPER—For sale,
Rights to manufacture or sell the manufactured
aracle in all parts of the country. Alsoagents wanted
in all districts where rights have not been sold. For description or the article see Scientific American of Nov.
13th. For further particulars address
SAFFORD & WILLIAMS,
1* No. 39 South Fourth st., Philadelphia, Pa.

To OD WORTH'S PATENT PLANING,
Tonguing, and Grooving Machines, double and
single. The largest assortment to be found in the United
States, varying in price from \$3.0 to \$5,000, and each
machine guaranteed to give entire satisfaction to the purchaser.

JOHN H. LESTER,
No. 57 Pearlst., Brooklyn, N. Y,

TEAM ENGINES FOR SALE at Louisville, Ky.—One IU-inch bore and 4 ft. stroke; one 6 inch bore and 1-inch stroke; one 4-inch by 14 inch stroke.

All second-hand. Also one 6 1-2 inch by 1, inch, and one 5 by 16-inch, new.

C. SIMON.

Louisville, Ky.

TOVE POLISH—The best article of the kindyet invented for family use. Sold wholesale and retail at 114 John st., New York, by QUARTERMAN & SON. 12 tf

UEST'S SOUNDING GUARD.—Described in Sci. Am., Vol. 12, No. 9. Rightsfor rivers, lakes, or ports, for sale, or the whole patent, except the right for U. S. Government vessels.

Address
Lieut. JNO. GUEST,
Washington, D. C.

HORSE STEAM ENGINE—At the Crystal
Palace, called the "Endeavor," the best engine
ever exhibited by the American Institute; will be sold
low if applied for immediately. S. C. HILLS,
10tt'
12 Platt street, N. Y.

ATTEAWAN MACHINERY DEPOT—No. 62
Cortlandt street, New York—Woodworth's Planing Machine Patent expires Dec. 27, 1856, Stationary and small Marine Steam Engines; Water Wheels, Mill gearing, Shatting; Flour, Cement, Saw, and Sugar Mills, Cotton and Woolen Machinery, Italiroad and Machine Shop Tools of every description. A very extensive assortment of Gears and Pulleys. Orders executed atshort notice. SAIM, B. SCHENCK, Agent. 10 1m

WRIGHT'S PATENT SECTIONAL SPRING BED BOTTOM—The cheapest and most perfect article in use. LIPPINCOTT & CO., Manufacturers, No. 1180 Broadway, N. Y. 10 3 m*

ACHINISTS' TRY SQUARES—An entirely new and unequalled article; cast-steel Rules, with straight-edges; cast-steel beveled Straight-edges for machinists; cast-steel Yard Sticks for carriage trimmers; combined Gauge and Callipers, and a superior drafting scale for Architects and Engineers—may be had by adversing DARLING & SCHWARTZ Bangor. Maine.

The Scales are warranted the exact U.S. standard, and graduated practically perfect. And all the above tools are warranted far superior to any thing of the kind in use and to give entire satisfaction. Sold by Tool Dealers in general. For further particulars a ddress the mantacturers. Orders executed with dispatch. The above tools are used and recommended by the Mechanical Department at Washington.

O FANNING MILL MAKERS—Lewis & King.
Seneca Falls. N. Y., manufacturers of a superior article of Fanning Mill Irons, are now prepared to make arrangements for supplying castings on the most reasonable terms for the year 1857.

GENTS WANTED TO SELL RECIPES for making honey as good as that made by bees, and does not cost over six cents are made by bees, and does not cost over six cents per pound, sent for one dollar in gold. N. R. GARDINER, Peace Dale, R. I. 93*

INEN AND TOW MACHINERY FOR SALE

-A large lot of preparing, wet and dry spinning,
twisting, and finishing. For particulars apply to A. E.
POWERS, Lansingburgh, Rensslaer Co., N. 1. 94*

HOE TOOLS—Best of all kinds at the lowest prices manufactured by GEO. WILLIS, Worcester, Mass. 13*

1000 AGENTS—For unparallaled induce ments. Send stamp to box 533, Detroit 10 2*

ARRISON'S GRIST MILLS—20, 30, 36 and 48 all the modern improvements. Also, Portable and Stationary Steam Engines of all sizes, suitable for said Mills. Also Bolters, Elevators, Belting, &c. &c. Apply to 3.6 wif S. C. Hills, 12 Platt st., N.

TWO WHOM IT MAY CONCERN—This certifies
that I have one of Wells & Co's Circular Saw Mills
in operation, with which we are now cutting from ten to
fifteen thousand feet of road plank per day (12 hours) and
we have no doubt but we could, under favorable circumstances, cut 20,000 feet in 12 hours. Our engine is 8-inch,
bore and 16-inch, stroke. Boiler 21 teet long, 42 inches
diameter, two 13-inch, flues. Our logs are 8 feet long,
mostly white oak.

Grand Blanc, Genesee Co., Mich, Sept. 13th, 1856.
Orders for mills sent to H. Wells & Co., Florence,
Hampshire Co., Mass., will receive prompt attention.
6 Seow

Oscillating Steam Engine. Patented December 12th, 1854. After a thorough practical test for about two years of the above improvement, our success warrants us in inviting the closest examination into its reputation in our own locality, and the great popularity of our engines in the midst of the most active and intelligent conspetition. To engine builders and capitalists we present the following considerations. An ensine unsurpassed for duratility, compactness, and simplicity, cutting off the steam close to each end of the cylinder by means of a side pipe adjustable by set screws, securing a perfectly steam tight valve with little or no friction or pressure, combining all the advantages of a double slide valve engine and at the same time dispens ng with all cams, camrods, cross-heads, rock-shafts, slide-valves, etc., saving their cost of construction and necessary waste of power in running. And finally we present an improvement (applicable to all cylinder engines) which enables the manufacture to construct them at one half the cost of any other engine of the same value. This last consideration commends it to the immediate and earnest attention of all persons interested or engaged in manufacturing engines. Believing that the improvement is deduced to revolutionize this blanch of manufacture, we have decided upon selling such a number of shop rights as will introduce it into general u-e, and at the same time secure the persons purchasing against too much competition with each other, and on such terms addressed to the undersigned will meet with prompt attention. For explanations see No. 11, Vol. 12, Scr. Am. CRIDGE, WADSWORTH & CO., Pittsburg, Pa.

DATENT ORNAMENTAL LATHIC for bedstead teapoy and null turning, with gre at perfection, without a pattern. Rights and lathes for sale by P. C. Cambridge, patentee, North Enfield, N. H. LEONARD & WILSON, 60 Beaver st., N. Y., Agents. 8 10*

AP-WELDED IRON BOILER TUBES.—Pross-er's Patent.—Every article necessary to drill the lates, and set the tubes in the best manner.
THOS. PROSSER & SON, 28 Platt st., N. Y.

D. BARNETT, Malleable and Gray Iron Works, Hamilton cor. of McWhorter st., Newark N. J. Orders promptly attended to.

Sites Drawing Instruments—A full stock of these celebrated instruments always on hand. Catalogues gratis.

AMSLER & WIRZ.
76*eow 211 Chestnut st., Philadelphia. stock of these celebrated instruments always on Catalogues gratis. AMSLER & WIRZ, teow 211 Chestnut st., Philadelphia.

Tonguing, and Grooving Machines.—The subscriber, from his twenty-four years' experience both in the use and manufacture of these unrivalled machines, is prepared to furnish them of a quality superior to any that can be procured elsewhere for the same money. Prices from \$56 to \$1550. Also several good second-hand Planing, Tonguing, and Grooving Machines for sale. Rights for sale in all the unoccupied towns in New York and Northern Pennsylvania.

5 12*

Planing Mills, Albany, N. Y.

ACHINE BELTING, Steam Packing, Engine Hose.—The superiority of these articles manufactured of vulcanized rubber is established. Every belt will be warranted superior to leather, at one third less price. The Steam Packing is made in every variety, and warranted to stand 300 degs, of heat. The hose never needs oiling, and is warranted to stand any required pressure; together with all varieties of rubber adapted to mechanical purposes. Directious, prices, &c., can be obtained by mail or otherwise, at our warehouse. New York Belting and Packing Co., JOHN H. CHEEV RR, Treasurer, No. 6 Deystreet, N. Y. 45 20*

PAGE'S PATENT PERPETUAL LIME KILN, will burn 100 barrels of lime with three cords of wood every 24 hours; likewise my coal kiln will burn 150 bushel with 1 tuh bituminous coal in the same time; coal is not mixed with limestone. Rights for sale.

45 26 C. D. PAGE, Rochester, N. Y.

50 STEAM ENGINES—From 3 to 40-horse power also portable engines and boilers; they are first class engines, and will be sold cheap for cash. WM BURDON, 102 Front st., Brooklyn. 41 tf

GLD QUARTZ MILLS of the most improved construction; will crush more quartz and do it finer than any machine now in use, and costs much less. WM BURDON, 102 Front st., brooklyn.

VAIL'S CELEBRATED PORTABLE, S'IT:AM
Engines and Saw Mills, Bogardus' Horsepowers,
Smut Machines, Saw and Grist Mill irons and Gearing,
Saw Gummers, Ratchet Drills, Sc. Orders for light and
heavy forging and castings executed with dispatch.
LOGAN & LIDGERWOOD,
13 1y*

TO CAR BUILDERS—For Sale, one new Upright Boring Mill for boring car wheels. Maker's price \$690, will be sold for \$300 cash. Address GEO. S. LIN-COLN & CO., Hartford, Ct.

DOLLER FLUES—All sizes and any length promptly furnished by JAMES O. MORSE & CO., No. 79
John st., N. Y.

51 3mos

ROUGHT-IRON PIPE—Plain, also galvanized inside and outside, sold at wholesale by JAMI'S O. MORSE & CO., No. 79 John st., N. Y.

51 3mos

PORBES & BOND, Artists, 89 Nassau st, N.Y.. Me-chanical and general Draughtsmen on wood, stone, & c.

oll.! Oll.!—For railroads, steamers, and for machinery and burning—Pease's Improved Machinery and Burning Oil willsave fifty per cent., and will not gum. This oil possessesqualities vitally essential for lubricating and burning, and found in no other oil. It is of fered 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 an 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. And W. S. ROWLAND & CO., Agents for Chicago, Ill. N. B.—Reliable orders filledfor any part of the United States and Europe.

NORCROSS ROTARY PLANING MACHINE.— The Supreme Court of the U. S., at the Term of 1853 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, Office for sale of rights at 27 State street, Boston, and Lowell, Mass.

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.

ARRISON'S 30 INCH GRAIN MILLS—La-test Patent.— A supply constantly on hand. Price \$200. Address New Haven Manufacturing Co., New Haven, Conn.

Politer INCRUSTATIONS PREVENTED—
A simple and cheap condenser manufactured b
Wm. Burdon, 102 Front st., Brooklyn, will take every particles of lime or salt out of the water, rendering it as pure
as Croton, before entering the boiler. Persons in want
of such machines will please state/ what the bore and
stroke ofthe engines are, and what kind of water is to be
used.

41 tf