## Scientific American.



J. B., of N. Y .- The "evlinders of steam engines and the upper parts of boilers and locomotives are generally covered with felt, and with wooden "lagging,"—both good non-conductors, and forming a better protection against radiation than the plan you propose. would, moreover, be nothing patentable in polishing them, for the cylinders of stationary engines are often (especially in Europe) either turned and polished up bright, or painted white, for the purpose of preventing radiation of heat; and it is common to apply bright sheet brass or Russia iron outside of the wood and felt.

D. W. T., of N. H .- "Tredgold on the Steam Engine contains the inf rmation you desire. The section of that work relating to locomotives costs, we believe, some where about \$15. Very possibly "Colburn on the Loco motive," costing \$1, will answer your purpose, or Norris' Hand Book of the Locomotive, costing about \$150. Oscillaing cylinders have not, to our knowledge, been used o: locomotives, though we have seen several models of them with such cylinders. They would be objectionable on account of the very high speed at which locomotive engines are sometimes compelled to work.

H. S. C., of Ill.—The cause of the heat developed by friction is mysterious. Mechanical power seems to be changed into heat-one being annihilated and the other created by the operation That the heat is not drawn from surrounding bodies, nor developed from a laten condition, has been demonstrated by careful experiment We cannot furnish all the back numbers you ask for.

We cannot turned all the back numbers you ask for.

C. E. L., of Mo.—Your method of raising water by steam is similar to what is known as Savary's engine, and is over two hundred years old. The employment of the exhaust steam of an engine for this purpose would not be patentable.

bank bills under the supervision of the State authorities with devices difficult to counterfeit, and which all could readily become familiar with, has many objections. The check it would afford against over issue on the part of the banks would be something in its favor, but would prove a serious annoyance to the regular business of the

F. C. M., of N. Y .- Your communication on the cause of gravitation, etc., is not of sufficient interest for publi-

J. K., of Pa.—The pearls in fresh water muscles and clams, like those in salt water shellfish, are found in the throats of the animals. When they grow so large as to touch the shell, they lose their color, and are worth-

A H., of N. Y .- Your plan of allowing a locomotive steam plow move itself by "overhauling" a chain seem to involve all the principal difficulties of both the loco motive and fixed engine system, rather than avoid either J. B., of ————Address H. Wells & Co., of Florence, Mass, for information in regard to circular saw mills.

C. H., of S. C.—We regret that we have not a single copy of Macfarlane's History of Propellers to send you We think you can procure it of H. C. Baird, of Philadel-

J. W. T., of Ind .- Your plan of propelling canal boat was suggested 25 or 30 years ago, and substantially the same thing is published in Vol. 5. Scientific American.

A. S. McO., of N. Y.—There is no substance known which will "cut off the power of the magnet." The mutual attraction of a magnet and a piece of iron or of two magnets for each varies in certain ratio with the distance and without regard to any substance interposed between. If you have a material which will, as you say, prevent the attraction beingfeltthrough it, the discovery

W. W., of Pa.—The scrap you refer to, which still we think continues to be copied among "curious facts" in many books and newspapers, is complete fallacy. Whirlpools in water or any other fluid are as willing to revolve in one direction as the other, and always turn in the direction in which the greatest impulse is received.

J. B. C., of Ala.—Your plan of propelling vessels by forcing out currents of air from the stern under water is one of the oldest and weakest on record. It is very wasteful of power, so much so that on some trials the full force of powerful engines applied to blowing cylinders for the purpose were unable to stretch the hawsers which held the vessel to the wharf.

J. S. K., of N. J.-VVe cannot inform you how the perpetual motions on exhibition at Barnum's Museum are impelled. They were got up by the same man that constructed the one exhibited last year in this city, which we treated at some length. They are a puzzle to us.

L. R. M., of R. I.—The quickest passage ever made

across the Atlantic was by the Persia on her last voy-age. She ran from land to land in 8 days 22 1-2 hours, and from dock to dock in 9 days 3 hours and 20 minutes clock time. The sea was very smooth and clear the whole passage. This, like nearly all the quick trips was

ne outward passage, or from New York to Liverpool.
T. H. M., of Vt.—Your communication is interesting, but not of a practical and direct importance suited for our

columns. C. J. N., of N. Y.—There is a Spanish, a French. Welsh, and several German newspapers printed in this city in their proper type and language. Of journals in English type th re are several Irish papers, one English, the Albion, and one Scotch, recently started, an exceed ingly fine looking and well conducted sheet, the Scottish American Journal. There are no especial agencies for the foreign mechanical journals except of the Artizan 74 Bowling Green, and the Practical Mechanics' Journal 351 Broadway, but any respectable periodical dealer can procure them. Wilmer & Rogers, 42 Nassau st., are general agents for everything foreign.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, Aug. 8, 1857 :-

S. C., of Va., \$25; J. B., of Ohio, \$25; C. D. T., of Ill. S. C., of Va., \$25; J. B., of Ohio, \$25; C. D. T., of Ill., \$25; A S., of N. Y., \$25; H. DeW., of —, \$20; F. P., of Pa., \$35; H. B., of N. Y., \$890; W. W., of Mo., \$25; R. H. L., of Pa., \$55; J. G., of N. H., \$15; M. L., of N. Y., \$250; O. N., of Pa., \$100; Z. & B., of Mo., \$25; A. C., of Iowa, \$10; S. L. W., of Pa., \$10; A. H., of Conn., \$21; J. McL, of N. Y., \$30; J. N. W. of Ill., \$25; McN. & G., of Ill., \$30; S. B., of Ill., \$10; H. W. C., of N. Y., \$30; J. N. W. of J. W. C., of N. Y., \$30; J. N. W. of J. W. C., of N. Y., \$30; J. N. W. of J. W. C., of N. Y., \$30; J. N. W. of J. W. C., of N. Y., \$30; J. N. W. of J. W. C., of N. Y., \$30; J. N. W. of J. W. C., of N. Y., \$30; J. N. W. of J. W. C., of N. Y., \$30; J. N. W. of J. W. C., of N. Y., \$30; J. N. W. of J. W. C., of N. Y., \$30; J. W. of J. W. O., J. W. of M. W. O., of N. Y., \$30; J. W. of J. W. O., J. W. of W. J. W. O., J. W. of M. W. O., J. W. of M. W. O., J. W. of M. W. of M. W. O., of N. Y., \$30; J. W. of M. W. of M. W. O., J. W. of M. O., which M. O., which M. W. of M. of M. W. of M. o G. S. of N. Y., \$25; B. C., of N. J., \$25; L. F. H., of N.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Aug. 8, 1857;— P. S., of N. Y.; J. B., of Ohio; B. C., of N. Y.; J. N. W., of Ill.; B. B., of Conn.; S. L., of Ga.; G. D. L., of N. Y.; C. D. T., of Ill.; A. S., of N. Y.; S. C., of Va.; Z. & B., of Mo.; C. A. W., of Mass.; I. L., of R. I.; W. F., of N. Y.; W. W., of Mo.; A. C., of Iowa: L. F. H., of N . J.; O. L. & D., of Ohio.

## NOTICES

INVENTORS AND PATENTEES will bear in mind that the editors of the Scientific American are conducting the most extensive American and European Patent Agency in the world. They have offices in New York, Washington, London, Paris and Brussels, through which they prosecute applications for patents upon such terms as have not failed to bring them a business in extent far beyond that of any other agency in this country. This clearly shows the confidence reposed in us by inventors generally. We have no new or peculiar process to advertise, by which the business is to be done. We proceed according to law; and we have found that, after an experience o' nearly twelve years, no other system, however peculiar, cau equal it. Inventors should nevertrust their business to inexperienced persons. If they wish to have their papers propagate to stand a legal test, they should be cautious to employ agents experienced in the business. Circulars of information sent free.

BACK NUMBERS OF THE PRESENT VOLUME-AL most every mail brings letters of inquiry from our patrons for certain numbers of the Scientific American which we are unable to supply. To save subscribers the trouble of writing for such numbers as we have not got, we append a list of the numbers which are entirely exhausted in Vol. 12:—1, 2, 3, 4, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 21, 22, 23, 24, 27, 30, 31, 35, 36, 39. Those numbers that are not specified above we can supply, and shall be happy to do so to those who have missed them.

## Terms of Advertising.

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

All advertisements must be paid for before inser

A MERICAN AND FOREIGN PATENT SO-licitors.—Messrs. MUNN & CO., Proprietors of the MERICAN AND FOREIGN PATEXT SUlicitors.—Mess:s. MUNN & CO., Proprietors of the
SCIENTIFIC AMERICAN, continue to procure patents for
inventors in the United States and all foreign countries
on the mostliberal terms. Their experience is of twelve
years' standing, and their facilities are unequalled by any
other agency in the world. Consultation may be had
with the firm between nine and four o'clock daily, at
their principal office, 128 Fulon st., New York. Our
branch offices are corner of F and Seventh sts. Washington. D. C., Nos. 66 Chancery Lane, London, 29 Boulevard Saint Martin, Paris, and 3 Rue Therrsienne, Brussels. Circulars of information concerning the proper
course to be pursued in obtaining patents through our
Agency, the requirements of the Patent Office, etc., may
be had gratis upon application to the principal or either
of the branch offices. Communications and remittances
should be addressed to

MUNN & CO.,
No. 128 Fulton st., New York.

YCKOFF'S PATENT TUBULAR BORING
Machine—See Scientific American. Vol. 12, No.
25, for cut and description. Adapted to boring water
pipes, all kinds of pumps, wagon hubs, chain pump
tubing, &c., boring ten leet per minute without tacking
out for chips, is now in successful operation in most of
the Northern and Middle States. It is the only machine
of the kind ever invented that will bore a perfectly
smooth hole through all kinds of timber without deviation. will be on exhibition at the United States Fair at
Louisville, &T., and at the State Fairs in New York and
Pennsylvania, this Fail. For nurther particulars inquire
of A. WYCKOFF, Elmira, Chemung co., N. Y.

of A. WYCKOFF, Elmira, Chemung co., N. Y.

WELHANIUS' FAIR—The fourth Exhibition of the Worcester County Mechanics' Association for the Encouragement of Manufactures and Mechanic Arts, will be opened at the Mechanics' Hall, Worcester, Mass, on Thursday, Sept. If, and continue two weeks. The Asociation respectfully invite the mechanics, manufacturers, artists and inventors of Massachusetts and adjoining States, to turnish such specimens of their various productions of labor andskill as they may wish to present to the notice of the public through the medium or a Fair—steam power will be furnished or operating such machinery as may be presented for exhibition. Silver and stronze medias, Diplomas, and gratuities in money will be awarded to artice so of merit, and a copy of the Reports furnished to each contributor. It is desirable that all articles intended for the Exhibition should be presented on or before wednesday, Sept. 16th. Communications addressed to the Superintendent will be promptly attended to. PUTMAN w. TAFT, Sup't. 492\*

POR SALE—The patent right of an Automatic Fan, patented June 9, 1856 State rights in sections or in general An opportunity is here offered to cabinet makers, furniture dealers, and capitalists in general. Will be soid to the highest bidder. For further particulars address L. REBSTOUK and N. REIMEL, 6 Myer's Court, Race, below Sixth st., Philadelphia.

MERICAN IN TITUFE—Special Premium for the best High Pressure steam Engine. The Managers of the Twenty ninth Annual Fair of the American Institute with award as special premium of the large Gold Medal, accompanied by a Diploma, for the best High Pressure Steam Engine; the cylinder of which must be 12 inches diameter, the length of stroke at the option of the builder. The said engine to be tested during the 29th Annual Fair at the Crystal Palace, in the city of New York, under the inspection of four competent engineers, to be appointed, one from each of the following States, to Managers, the said of the control of the said o

THE TENTH ANNUAL EXHIBITION of the Maryland Institute, Baltimore, will be opened on the 29th of September, and continue to the 2.th of October, 1857. Goods for competition and premiums will be received from 22nd to 24th of Sept. inclusive, afterwards for exhibition only. Mechanics, manufacturers, inventors, artists and others, of the entire country, are respectfully solicited to contribute to the same, and assured that every effort will be made to display their works to the best advantage. Circulars containing ruies, regulations, &c., will be promptly furnished by app\_ication to JUHN S. SELBY. Actuary.

49 tf JOSHUA VANSANT, Chairman.

CAUTION—The public are hereby cautioned against purchasing any interest in a patent granted to Wm. H. Walton, dated 9th December, 1855, and re-issued to him, except from wm. H. Walton personally, who alone has the legal right of disposing of the same. For further information address WM. H. WALTON & CO., 191 and 193 Chrystie st., New York.

& G., of III., \$30; S B., of III., \$10; H. W. C., of N. Y., \$30; L. T. & Co., of R. I., \$25; O. & Z.W., of N. J., \$30; CHAPMAN, Trinity Springs, Martinco., Ind. 49 2\*

PROSSER'S PATENT SCROLL SAW has neither sash, slides, nor springs; can be run at thrice the usualvelocity, working much more smoothly and rapidly than any other saw. Price complete, on iron frame, \$60 LANE & BOD LEY, manufacturers of wood.working machinery, Uincinnati, Ohio.

49 4\*

"People kill themselves by eating, by drinking, by labor, by sleep, by want of sleep, by sexual excess, by taxation of brain, by money-making and spending, by ex-ended violation of physical law, in almost every direction. Now the Water Cure Journal contemplates a rectification of the general habits of the people in all cases where correction is needful."—Da. Jackson.

Table WATER CURE JOURNAL—Devoted to Hydropathy, its philosophy and practice; to Physiclogy and Anatomy, with engravings; to Bathing, Dietetics, Exercise, and to all those laws which govern life and health. Monthly, only \$1 a year. Address FOW LER & WELLS, 368 Broadway, New York.

ECHANICS' FAIR IN LOWELL—The Second Exhibition of the Middlesex Mechanic Association witt open in Lowell, Mass., September 19, 1857. Contributions will be received until September 5. For infermation address JOHN W. SMITH, Sup't. 49 3\*

The business and machinery of John C. Quarterman's estate, consisting of a six-horse power steam engine, a ten-horse power boiler, lathes, saws, boring and drilling machines, rounding machines, saws for scroll work, and a machine for making shovel, coal hod and pail handles, together with all the tools and fixtures. The business has been established from the year 1851, and to an ingenious mechanic opens a good prospect. For particulars apply to JAMES QUARTERMAN, 114 John st., New York. or to SARAH ANN QUARTERMAN, Flushing, L. I., who resides on the place.

TO HOUSEKEEPERS—I own the copyright of the celebrated 100 Metropolitan Hotel recipes for Cooking, Baking, making Creams, Pastry, Preserves, &c., &c., and will send them by return mail (free of postage) on receipt of four letter stamps. J. R. STAFFORD, 16 State st., New York.

ACHINISTS' TOOLS—CARPENTER & PLASS 114 479 First ave., New York, have constantly on hand and make to order all kinds of machinist' tools of superior quality, particularly adapted for railway companies, steam engine builders, &c., whose orders are respectfully solicited, and shipped at short notice—terms moderate. Also a few second-hand tools, one 16 ft. and one 8 ft. iron planer, two slide lathes, 12 and 16 ft., and one 8 ft. face lathe.

PATENTEES AND PURCHASERS—The subscriber will examine or experiment on the working of new machines and processes, prepare elaborate reports, and give professional epinions for public or private use. Refers to Munn & Co. THOS. D. STET. SON, Consulting Engineer, 5 Tryon Row, New York.

NCRUSTATION IN STEAM BOILERS—A late patent for removing and preventing incrustation in steam boilers. It has been thoroughly tested, and in every instance has given full satisfaction, by removing all old scale, and preventing the formation of new, keeping the boilers entirely free from incrustation without injury to the iron. Satisfactory proof of its good effects will be given to any wi-hing to purchase. For sale in individual or State rights. Address Messr. SPENER, BOARDMAN & SPENCER, Lancaster, Pa., sole agents for the United States.

HIO MECHANICS' INSTITUTE, Cincinnati.—
Fifteenth exhibition of Arts and Manufactures. We desire to call the attention of Manufacturers. Me chanics, Artists, Inventors and others to the above Exhibition, which will be opened in Cincinnation Thursday, Sept. 10th, and continue dsily until the 30th, in a commodious fireproof building, which has been erected to the purpose I tis desirable that those intending to exhibit articles should give early notice to J. B. HEI CH. the Clerk of the Institute, who will promptly give any information that may be desired. By order of the Committee. C. F. WILSTACH, Chairman of the Committee.

WANTED-A second-hand Locomotive Steam Boiler, of about thirty horse power, capable of working at 75 les, pressure. Address, stating dimensions and price, D. POWERS & SONS, Lansingburgh, N. Y. 43 3\*

RON AND BRASS FOUNDERS—Three patentable inventions for sale. One a mold from which a number of clean metal castings can be taken. Address THOMAS HODGSON, Meach Place, Brooklyn, N. Y.

ECOND-HAND Steam Engine and Boilerfor sale.— One 8-horse Upright Steam Engine, Boiler 30 inches diameter, 25 feet i.ng, nearly new, and in good running order. For particulars address H. B. MATHER, West Norwalk, Fairfield co., Conn.

Is HERMEN—If you wish to catch any kind of fish as fast as you can pull them out, get Gardner's Secret Art for Catching Fish, sent for \$1. N. R. GARD. NER, Peace Dale, It I.

TOODWORTH PLANING MACHINES of superior style and workman hip, of various sizes, and the latest improvements. Also Steam Engines and Boilers, Sash and Blind Machinery, Lathes, Planers, Drills, Belting, and all kinds of Machini-ls' Tools on hand, and for sale at the Machine Depot, 163 Greenwich st., New York. A. L. ACKERMAN. 45 8

MALLET safe against pickpockets or loss sent free for \$1. DICKINSON & BATE, Hudson, Mich

TEAM ENGINES FOR SALE—One of 8, one of 12, and one of 18 horse-power. H. A. CRANE, cor. 29thst.and 11th ave. 44 6\*

G CUSHING'S Unequalled Straw and Stalk Cutter.—For finished work, or the right of territory, address the inventor, Dryden, Tompkins county, N. Y.

WANTED—300 Active Young Men, at a salary of \$100 per month. A capital of only \$5 required. Full particulars given to all who incless a stampand address N. R. GARDNER, Peace Dale, R. I. 445

CAST STEEL WIRE DRAWING at the Union
Works, Paterson, N. J. Orders solicited and carefully filled by CHAMBERLIN & CO.
43 13\*

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 print ers, carpenters, farmers, planters, &c. A 21-2 horse can be seen in store, it occupies a space 5 by 3 feet, weigh 1500 lbs., price \$240; other sizes in proportion. 28 e3w

SWISS DITAWING INSTRUMENTS A full stock of these celebrated instruments always on hand. Catalogues gratis.

AMSLER & WIRZ, 20 14\*eow 211 Chestnut st., Philadelphia.

L'INGINEERING.—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 vessel: machinery, boilers, &c. General Agentfor As hcroft's Steam and Vacuum Gauges, Allen & Noyes Metallic Self-adjusting Conical Packing, Faber's Water Guage, Sewell's Sailnometers, Dudgeon's Hyoraulic Lifting Press, Roebling's Patent Wire Ropefor hoisting and steering purposes, Machinery Oil of the most approved kind, etc.

CHARLES W. COPELAND

CHARLES W. COPELAND, Consulting Engineer, 64 Broadway.

chines of every kind and all prices. A large a sortment on hand; and I am prepared to construct an machine to order from ten days to two weeks, and guar antee each machine to be perfect in its construction, and give purchasers entire satisfaction. The patent has expired, and wil not be renewed. I make this business exclusive, manufacturing nothing but the Woodworth Machines, and for that reason can make a better article for causive, manuracturing nothing but the Woodworth Machines, and for that reason can make a better article for less money; and with my fifteen years' experience I fully guarantee each machine to come up to what I am willing to recommend, that is, that each machine shall be more than equal to any other manufactured for the same price. JOHN H. LESTER, 5: Pearl st., Brocklyn, N. Y., three blocks above Fulton Ferry. 3 tf

DEARSON CROSBY'S PATENT RE\_SAWING Machines.—The Crosby patent for re-sawing lumber, having teen re-issued April 28, 1857, and having purchased the right to the same for the State of New York and Northern Pennsylvania, the sub-critler is prepared to sell rights to use the machines in the greater portion of the above named territory, and also to jurnish the public with these machines. Having re-built my machine manufactory—which was destroyed by fire on the 9th of Feb. last—I continue to manufacture and have on hand forsale. Woodworth's Patent Planing Machines, from \$150 to \$1.500, and of a quality unequalled by any other manufacturer. Also the separate parts of the machine, namely, planing knives, side tools, kide cutter heads, cylinders, &c., as well as the above named Crosby Re-sawing Machines.

48 13\*\* Planing Mills, Albany, N. Y.

TEAM PUMP'S, Boiler Feed Pumps, Stop Valves, Oil Cups, Cocks, Steam and Water Gauges, sold by JAMES O. MORSE & CO., No. 79 John street, New York.

POILER FLUES—All sizes, and any length desired, promptly furnished, by JAMES O. MOILSE & CO., No. 79 John street, New York.

ROUGHT IMON PIPE—Plain and galvanized sold at wholesale, by JAMES O. MORSE & CO. No. 79 John street, New York.

NGRAVING ON WOOD and MECHANICAL DRAWING, by RICHARD TEN EYCK, Jr., 123 Fulton street, N. Y., Engraver to the Scientific American.

ROOM WITH DOWN AND MANUFACTURERS—
ROOM with power, for the exhibition of machinery, can be had in the Depot Buildings, corner of Elm and Franklin sts. The location is extremely desirable for its prominence and convenience to the business part of the city. Apply to T. EEN NETT, on the premises.

43 tf

ACHINE BELTING, Steam Packing, Engine IVM 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. Directions, prices, &c., can be obtained by mail or otherwise, at our warehouse NEW YORK BELTING AND PACKING COMPANY John H. Cheever, Treasurer, No. 6 Dey street, N. Y 40 if

EDECK'S PATENT DROP PRESS—The best machine in use for stamping jewelly, ornaments, tin ware, swedging iron, &c. A supply of all size, on hand and made to order by the patentee, MiLO PECK. New Haven, Conn. State rights for sale

NORBES & BOND, Artists, 89 Nassaust, N.Y., Me-chanicaland general Draughtsmen on wood, stone, &c

TEAM ENGINES, Steam Boilers, Steam Pumps, Saw and Grist Malls, Andrew Mills, Rice Mills, Quartz Mills for gold quartz, Sugar Mills, We ster Wheels, Shatting and pulleys. The largest assortment of the ab ve in the country, kept constantly on hand by VM, BURDCN, 102 Frontan, Brooklyn, N. Y. 2617

D. GOODWIN'S celebrated Patent Central Vent 46 Water Wheel For wheel or the right of terri-tory address J. W. BWIGHT, Eryden, N. Y., or E. C. BRAMHALL, 190 Fulton, N. Y.

AP-WELDED IRON BOILER TUBES.—Prosser's Patent.—Every article necessary to drill the tube.plates, and set the tubes in the best manner.
44 26 THOS. PROSSER & SON, 28 Platt st., N. Y

gines, &c.—Twenty-seven years' experience enables me to furnish Woodworth Planers for surfacing one or both sides, planing and matching, rabbiting, leading, or for moldings or clapboards, in any variety of beautiful construction and great power. Ample evidence of the superiority of my machines will be acrossed from parties that have other machines in the same mill. Every machine will be accompanied, if desired, with a written warrantee. As some parties have been supplied with machines of another make when they supposed they were getting mine, I would advise that purchasers should buy none unless my name is on in full. Matteawan steam engines, machinists' tools, cotton and woolen, sashblind and door machinery, leather tanding, &c., turnished at the manufactory at Matteawan, N. Y., or at 62 Courtland street, N. Y. S. B. SCHENCK, Agent. 39 tf

THE BEST PLANING MACHIE IN THE World—Patented Nov. 21, 1854 and Nov. 13, 1855. These patents were obtained for improvements upon the celebrated Woodworth Planing Machine. They received a Gold Medal at the last exhibition of the Massachusetts Charitable Mechanics' Association. Machines of all kinds and sizes constantly on hand, which are warranted to give entire satisfaction, and to be superior to any now in use For further information addees the patentee, JAMES A. WOJDBURY, No. I Scollay's Building, Court st, Boston, Mass.

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 possessesquadities 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 killful engineers and machinery pronounce its uperior 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.

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.

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

CREW BOLTS with Square, Carriage or Countersum sunk heads, bolt ends, square head wood screws, set screws, machine screws, ratchet & breast drill, standard steel and shrinkage rules for sale, by CHAS. MERRILL & SONS, 556 Grandst., New YOK.

TECHANICS AND MANUFACTURERS—Tennessee Exhibition. The Third Annual Fair of the Mechanics' Institute of Tennessee will be held at Na-h. ville in October next. Exhibitors from all the State-will be permitted to enter articles and compete for the first premiums. For particulars address wal. STO K. ELL, President, or H. K. WALKER, Secretary.