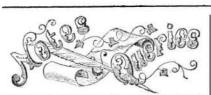
Scientific American.



** PERSONS who write to us, expecting replies through
this column, and those who may desire to make contributions to it of brief interesting facts must always
observe the strict rule viz. to furnish their names,
otherwise we cannot place confidence in their communications.

C. P., of N. Y.—Four arms are sufficient on a wind-

wheel of twelve feet immeter. We would not runit faster than six revolutions per minute. Its power, ac cor ing to the amount of sail surface spread and velocity of the wind, will range from two to six horses.

C. T. R, of Ill.—Lead makes a good steam joint, and will answer your purpose well, we think. Air can be heated to the temperature of steam by passing oit through a pipe in a furnace, almost as fast as you can force it in with a pump.

P. H. W., of N. Y .- From your meager description of the locality, we cannot tell how the water gets to the

S. G., of N. Y .- We thank you for the fine list of subscribers you have already engaged for the new series, and are gratified by the flattering encouragement we are receiving from all parts of the country, as well as from yourself. We will send you a prospectus. We never engage in the sale of patents, but think your invention one in which you will have but little difficulty in selling, when brought before the public.
R. G. P., of N. J.—There are hydraulic engines now

in operation at Newcastle, England, which are nearly similar in form and action to steam-engines. So far as we know, none are in use in our country.

J. H. B., of Pa.—The respective size of cone pulleys of different diameters cannot be determined by a common rule, as it depends, in a great measure, upon the distance of the centers or axles of these pulleys; and even for a particular case, it would be difficult to state the rule for calculating the size of the corresponding pulleys in words. If you give us the distance of the shaft of your two pulleys, and the size of the driving pulley, together with the diameter of the largest or smallest part of the riven pulley, we will be able to give you the size of the rest.

W. L, of Pa.-There is no published work upon woolen manufacturing, coloring, and cloth-dressing.

W. T., of N. Y .- A tablespoonful of citric acid will make a tumbler-ful of lemonade to suit our taste, but this may not suit yours. You must add the acid, stir in the sweet until your own palate is tickled to a

O. L. C., of Gal.—It is somewhat ifficult to mend Worn vulcanized india-rubber goods. A varnish made of india-rubber dissolved in naphtha or turpentine is the most suitable for this purpose; it must be applied

C. D., of Ohio.—If'A gets a patent for a machine, and C makes an improvement on it, C can prevent A from using his improvement and vice versa. C is entitled to a parent, for any improvement he may make on any ex-

J. M. K of Conn.-We do not know of any such ar ticle in can market as "cast-iron coppered kettles."
J. L. & Co.. of Mass.—We do not know any method

whereby you can make the wooden pegs very hard, and retain their color, except by submitting the wood to very severe pressure when in blocks.

J. S. N., of N. J.—The paint of a school black-board will endure much longer if covered with a coat of copal varnish containing a minute quantity of very fine emery; allow it to become perfectly ry before it

is used.
E. C., of Obio.—It is not easy to remove the disagreeable taste from water which has been impregnated with coal smoke. To do so you should employ quite a large filtering box for the entrance of the water to the retaining cistern or reservoir. Make a strong wooden box, three feet by four wide, and eighteen inches deep, with a tube leading from its bottom to the cistern. Nail a coarse canvass cloth on its bottom, and place a layer of clean gravel on the top of this three inche thick, then another layer of clean sand, mixed with gravel, six inches thick; and above this, three inches of nut size charcoal, then of gravel and sand six inches. Over this secure a piece of cotton or woolen flannel for the water to fall upon, and let it be washed frequently, as its pores will soon fill up. This filtering box should be situated in a convenient position, to allow of its contents being renewed frequently, as this is the only way to render it practically effective i : purifying the water

Money received at the Scientific American Office account of Patent Office business, for the week ending Saturday, May 21, 1859 :-

D. B. R., of Ala, \$275; J. A. P., of Mich., \$30; D. S. H., of Ill., \$10; J. S., of Ct., \$25; J. O. K., of Miss., \$25; A. D. B., of Ga., \$56; J. T., of Ill., \$25; W. S. & Co., of Ky., of \$60; E. McK., O., \$30; D. S., of Ill., \$25; S. E. G., of Ill., \$25; D. N., of Ill., \$20. E. A. T., of N. Y., \$30; S. & W.. of Texas, \$15; C. A. D., of La.. \$100; D. W. S., of N. Y., \$20; F. V., of La., \$50; E. S., of La., \$70; S. F. J. of Ind., \$25; E. B., of Pa., \$30; J. W., of Mass., \$30; J. B. A., of N. Y., \$250; G. S. T., of Mich., \$25; L. D., of Ct., \$40; J. B., of N. J., \$25; J. A., of N. Y., \$15; J. P., of Ill., \$25; E. M., of N. Y., \$50; N. W., of Mass., \$40; D. V., of N. Y., \$25; H. B., of N. Y., \$15; J. A. A., of N. Y., \$30; R. R. of Vt., \$25; W. R., of N. H., \$30; H. E., of N. Y., \$55, M. A. H., of R. I., \$55; H. G., of La., \$110; A. T. U., of \$57; H. T. M., of III., \$25; H. & G. of Pa., \$100; J. N., of Wis., \$25; T. M., of N. Y., \$30; J. C. P., of La., \$30; B. B., of N. Y., \$50; J. C. S., of Wis, \$47; H. W. S., of Wis, \$30; G. T., of

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

May 21, 1859:—
B. T. C. of Me.; J. W. of Mass.; R. R. of Vt.; G. S. T.,

(1) (A) (D)

of Mich; J. B. of N. J.; C. G. E. T. of France (2 cases); C. & J. K. G. of Pa.; D. N. of Ill.; D. W. S. of N. J.; B. B. of N. Y.; E. S. of La.; S. F. J., of Ind; H. T., M. of Ill.; G. T. of N. Y.; J. S. of Ct.; L. H. C, of N. Y.; J. O. K, of Miss., J. T. of Ill.; J. N. of Wis.; H. E. of N. Y.; H. M. of France; M. A. H. of R. I.; J. A. A, of N. Y.; H. B. of N. Y.; F. V. of Texas (2 cases); H. &. G. of Pa.; L. D. of Ct.; D. S. of Ill.; S. & W. of Texas; J. P. of Ill.; N. W. of Wis.; A. S. of N. Y.

IMPORTANT TO INVENTORS.

IMPORTANT TO INVENTORS.

A MERICAN AND FOREIGN PATENT SOLICITORS.—Messrs. MUNN & CO., Proprietors of the Somntific American, continue to procure patents for inventors in the United States and all foreign countries on the most liberal terms. Our experience is of thirteen years' standing, and our facilities are unequaled by any other agency in the world. The long experience we have had in preparing specifications and drawings has rendered us perfective on versant with the mode of doing business at the United States Patent Office, and with most of the inventions which have been patented. Information concerning the patentability of inventions is freely given, without charge, on sending a model or drawing and description to this office.

Consultation may be had with the firm, between nine and four o'clock, daily, at their principal office. 37 Park Row. New York. We established, over a year ago, a Branch Office in the City of Washington, on the corner of F and Seventh streets, opposite the united States Patent Office. This office is under the general superintendence of one of the firm, and is in daily communication with the Principal Office in New York, and personal attention will be given at the Patent Office to all such cases as may require it. Inventors and others who may visit Washington, having business at the Patent Office, are cor islly invited to call at our office.

We are very extensively engaged in the preparation and securing of patents in the various European countries. For the transaction of this business we have offices at Nos. 66 Chancery Lane, London; 29 Boulevard St Martin, Paris; and 28 Rue des Eperonniers, Brussels. We think we may safely say that three-fourths of all the European patents secured to American citizens are recovered through our Agency.

Inventors will do well to bearin mind that the English law does not limithe issue of patents to inventors. Any one can take out apatent there.

Circulars of information concerning the proper course to be pursued in obtaining patents through our Agenc

to be pursued in obtaining patents through our Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the principal office or either of the branches.

of the branches.

The annexed letters from the last two Commissioners of Patents we commend to the perusal of il persons interested in obtaining patents:—
MESSER MUNN & CO.—Itake pleasure in stating that while I held the office of Commissioner of Patents, MORE THAN ONE-FOLDER OF ALL THE BUSINESS OF THE OFFICE came through your han s. I have no doubt that the public confidence thus indicated has been fully deserved, as I have always observed, in all your intercourse with the Office, a marked degree of promptness, skill, and fidelity to the interests of your employers.

Yours, very truly, CHAS. MASON.

Immediately after the appointment of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the subjoined very gratifying testimonial:

MESSER MUNN & CO.—It affords me much pleasure

he addressed to us the subjoined very gratifying testimonial:

MESSES. MUNN & Co.—It affords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and, I doubt not, justly deserved) the reputation of energy, marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully, your obedient servant.

J. HOLT.

Communications and remittances should be addressed to MUNN & COMPANY, No. 37 Park-row. New York.

TOUNDRY AND MACHINE SHOP FOR SALE AT AUCTION.—I will sell to the highest bidder on the 15th of June; 1859, commencing at 10 oclock, the Ground and Brick Buildings, consisting of Foundry, Machine Shop, Blacksmith Shop, Brass Foundry and Fattern Shop, situated on the south side of Monroe st., between Eleventh and Twelfth streets, Louisville, Ky. The foundry has 3,500 feet molding floor; blacksmith shop has six forges and a fine 1 ot of tools; finishing shop has about 13,000 square feet of room, with boiler and two engines to drive machinery, one for fan.

an.

1 large Horizontal Boring Mill, for cylinders.

2 Upright Boring Mills, turn 6% and 8 feet.

1 Double-Headed Lathe, 36 feet bed; swings 40 inches.

21 33 ""

1 33 "
7 Small Lathes; turn from 3 to 12 feet.
1 Planer 12 feet by 3 feet square.
1 Compound Planer, with circular attachment.
3 Wood-Turning Lathes.
3 Drill Presses, 1 Gear Cutter, 1 Bolt Cutter, Vises, and a fine assortment of small tools to expedite work.

and a fine assortment of small tools to expedite work.

Terms of sale will be for the buildings and \$sound (which will be sold without any of the machinery), \$7000 in one, two, three, four and five years, and the excess upon six and eighteen months, with lien and approved security upon the first four payments. The machinery and tools will be sold in detail: all sums of \$50 and under, cash; from \$50 to \$500, six months; \$500 to \$1000, six, twelve and eighteen months, with approved security payable in bank. All deferred payment to bear interest from date.

Assignee of Lawson & Pearce.

N. B.—The above buildings are admirably suited for an Agricultural Implement Manufactory, Planing Mill, Furniture or Tobacco Factory, Brewery, and for many other branches of manufactures.

TO INVENTORS AND PATENTEES.—A. B. ELY, Counsellor-at-Law, Traveler Building, Boston, Masa, will give his personal attention and experience of fifteen years to consultations and trials in all matters relating to the law of patents, interferencea, intringements, &c. 38 15*

MARINE RAILWAYS.—THE SUBSCRIBER Marine and Naval Architect, is prepared to build Marine Railways and Dry Docks, and to furnish Steam and Horse-power Engines, Chains, Castings, &c., on short notice and on reasonable terms. Satisfactory reference given. Address H. I. CRANDALL, New Bedford, Mass.

PIVETS.—EVERY DESCRIPTION OF RIVETS:

Boiler, Tank, Safe, Belt, Hose, Shoe, and Tinman's, black and tinned, constantly on hand. Socket bolts of any size furnished on short notice.

38 13* TABER & GRINNELL, New Bedford, Mass.

A FIRST-CLASS PATTERN-MAKER OF long experience in the business, and having a knowledge of practical drawing, is desirous to obtain good and permanent employment, either to work at the bench or take charge of a shop; is competent, if necessary, to assist in drawing. For references, address J. H., Providence, R. L.

SUN DIALS,...MANUFACTURED BY W. W. WILSON, Pittsburgh, Pa., of new and highly improved patterns of every latitude; a suitable cast column is furni hed with them. Every garden, lawn and plantation should have one, being ornamental, accurate and useful. Address the maker for circular of prices, description, &c. 38 3**

A SUBSTITUTE FOR LEAD PIPE.—A New and Valuable Article, viz., a Semi-Elastic Pile or Hose which can be used with pumps of any kind, for suction, forcing, or conducting water in any and every place where pipe is required. Its properties are:—It imparts no deleterious effects to the water, nor in any way effects it unpleasantly after a few days use: it is sufficiently elastic to be bent into curves, and it is unaffected by heat or cold: it will not burst if water is frozen into it; it is not injured by exposure to the sun or atmosphere; it is composed of ingredients indestructible, except by fire. Samples of it have been tested by puse for three years, without the least apparent decay, and it can be made to bear pressure as high as 400 lbs. to the square inch. Price not far from that of lead pipe. Circulars with prices and particulars furnished by the manufacturers. BOSTON BELTING COMPANY, corner of Summer and Chauncey streets, Boston, Mass.

SEPLENDID PHOMOGRAPHS. OF THE

SPLENDID PHOTOGRAPHS OF THE celebrated Corliss Steam Engine have just been taken, and will be mailed to any part of the country on the receipt of 75 cents in postage stamps, by addressing WM. A. HARRIS, care of Corliss Steam Engine Co., Providence, R. I.

THE SCIENTIFIC AMERICAN SIGNS, for Muun & Co., were painted by Ackerman & Miller. Refer to the Commercial Agency, McKillop & Wood, Park Buildings. All communications for signa, banners, or other ornamental work, attended to with dispatch. ACKERMAN & MILLER, 101 Nassau st., next to the New York Herald Office. 27 3 m*

WHITMAN'S TURBINE WIND WHEEL.

—Territorial or shop rights for sale. For particulars, inquire of the inventor, E. WHITMAN, at South Abington, Mass.

WARTH'S SELF-ACTING WOOD-TURN-ING LATHES.—The best and most practical now in use; one boy will accomplish the work of four men. State and County rights for sale. Address A. WARTH, care W. H. Bertling, 23 Chambers st., New York, or the manufacturers, who have machines of all sizes on hand. Also a general assortment of machinists' tools. Circulars sent. Address CARPENTER & PLASS, 479 First ave.. New York.

CROZIER'S PATENT BARREL MA-CHINERY-Five hundred barrels can be made in a day by one set of machines. For machines or rights for State or county, apply to PETER WELCH, Oswego, N.Y., or to the agents, SLIPPER & GOADLY, No. 2 Froadway, New York.

WELLS' PATENT IMPROVED CHCCU-lar Saw Mills, acknowledged the best in use. Also, Portable and Stationary Steam-Engines of supe-rior excellence; Water Wheels, Mill Gearing, &c. Address H. WELLS & CO., at their old stand, Flor-ence, Hampshire county, Mass.

HARRISON'S 20 AND 30 INCH GRAIN
Mills constantly on hand. Address New Haven
Manufacturing Co., New Haven, Conn. 27 18

CROSSETT'S PATENT STAVE CUTTER—
Patented July 1, 1844: re-issued March 2, 1858; renewed and extended Junc 26, 1858.—The above mentioned machine is warrauted to cut more and better staves than any other machine in the United States, and is the most simple, cheap, and curable. I hereby caution all persons against using and vending said machine (the main features of which consist in the stationary knife and vibratory bed-piece) without the legal right to do so. Off. inders will be dealt with according to law. All persons wishing an interest in the extended term of said patent can obtain it by addressing the undersigned at Joliet, Ill.

38 6c GEO. I CROSSETT, Assignee.

WROUGHT IRON PIPE FROM % OF AN inch to six inches bore; Galvanized Iron Pipe (a substitute for lead), Steam Whizles, Stop Valvand Cocks, and a great variety of fittings and fixtures for steam, gas, and water, sold at wholesale and retail. Store and Manufactory 76 John, and 29, 31 and 33 Platt st., New York.

31 13

GUILD & GARRISON'S STEAM PUMPS for all kinds of independent steam pumping, for sale at 55 and 57 First street, Williamsburgh, L. I., and 301 Pearl street, New York. GUILD, GARRISON & CO.

WOODWORTH PLANERS—IRON FRAMES
to plane 18 to 24 inches wide—at \$90 to \$110. For
sale by S. C. HILLS, 12 Platt street New York. 27 to

WARREN'S TURBINE WATER WHEEL.
Damon, Jr. The vast number of these wheels now in operation, and the invarible success attending them, is the best evideuce of their dvantages over ordinary wheels in the economy of water power. The American water Wheel Co. will send to applicants (enclosing two stamps) their pamphlet, containing engravings of turbines and a treatise on bydraulics. Address, A. WARREN, Agent, No. 31 Exchange st., Boston Mass. 32 9t*

INGOT COPPER, SPELTER, BANCA TIN Lead, Antimony, Babbitt Metal, Mount Hope Cui

EIGHT-HORSE PORTABLE STEAM EN-Wheel, &c., attached to a flue boiler, all new. Price \$600. S. C. HILLS, 12 Platt-st., New York.

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TEPHENS' DYES FOR WOOD-FOR dyeing inferior woods to imitate the valuable kinds. Samples and prospectuses sent everywhere on receipt of 15 cents in postage stamps. Stephens' Liquid Drawing Ink for Engineers, Artists and Designers, 12 cents per bottle. Sold by stationers and artists' colormen, HENRY STEPHENS, Chemist, No. 70 William street, New York.

THE SALEM WIND TURBINES ARE CONstructed of 45 and 65 feet in diameter, having areas of 1500 and 3,000 equarel feet, and developing powers of 25 and 100 horses, under perfect regulation. Will stand up to a violent gale unreefed, with scarcely a vibration. A 40-feet turbine attached to a fiouring-mill has been in successful operation on the praries for nearly three years, and one 45 feet in diameter is now in full work at 8alem. Can grind from 40,000 to 50,000 bushels of corn annually. Turbines from one to six horses' power are also constructed upon the same principle. A card, with illustration, sent on application by mail to the Treasurer of the Turbine Manufacturing Company, Salem, Mass.

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CORLISS' PATENT STEAM ENGINES—
On application, pampblets will be sent by mail containing statements from responsible manufacturing companies where these engines have been furnished, for the saving of fuel, in periods varying from 2% to by cars. (The "James" Steam Mills," Newburyport, Mass, paid \$19,734 22, as the amount saved in fuel during five years. The cash price for the new engine and beliers was but \$10,500.) These engines give a perfectly uniform motion under all possible variations of resistance. Two hundred and fifty, varying from about 20 to 500-horse power, are now in operation. Boilers, shafting, and gearing.

CORLISS STEAM ENGINE CO.,
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Providence, R. I.

BOILER FLUES FROM 1 ½ INCH TO SEVEN inches outside diameter, cut to any length desire, promptly furnished by JAMES 0. MORSE & CO., 76 John st., New York.

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st., New York.

30 13

OIL: OIL:—FOR RAILROADS, STEAM—
ERS, and for machinery and burning. Pease's Lusproved 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 off 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. P. PEASE, 51 Main st., Buffalo, N. Y. N. B.—Reliable orders filled for any part of the United States and Europe.

STEAM ENGINES, STEAM BOILERS, Steam Pumps. Saw and Grist Mills, Marble Mills, Recard Mills, Marble Mills, Water Wheels, Shafting and Pulleys. The largest assortment of the above in the country, kept constantly on hand by WM. BURDON, 102 Front street, Brocklyn, N. Y.

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27 18

THE ENTIRE OR ANY PORTION OF THE right to Gardiner's Combined Chair and Lounge for sale. Illustrated in No. 37 of the present volume of the Scientific American. Apply to F. J. GARDNER, Washington, N. C.

THE AUBIN VILLAGE GAS-WORKS WERE erected last year by one city and hundred-llage companies to their entire satisfaction. Towns having only fifty consumers of gas can rely on the stock-paying dividends; and if one bundred, lo per cent will be guaranteed. For references, apply to the Company, No. 44 State street, Albany, N. Y.

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RON PLANERS AND ENGINE LATHES of all sizes, also 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.' 27 18

HOYT BROTHERS, MANUFACTURERS OF patent-stretched, patent-riveted, patent-jointed, Oak-Leather Belting; Store, 28 and 30 Spruce street, Manufactory, 210, 212, 214 and 216 Edirdge st., New York. A "Treatise on Machinery Belting" is turnished on application, by mail or otherwise—gratis. 29 12*

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A MESSIEURS LES INVENTEURS—
Avis Important.—Les inventeurs non familiers avec la langue Anglaise, et quipreferraient nous communiquer leurs inventions en Francais, peuvent nous addresser dans leur langue natale. Envoyez neus un dessin et une description concise pour notre examen. Toutes communications seront recues en confidence. MUNN & CO. Scientific American Office, 37 Park Row, New York.

Row, New 1012.

3nx Beachtung für Erfinder.
E finder, welche nicht mit der englischen Sprache bekannt find, können ihre Witthellungen in der deutschen Sprache machen. Etizzen von Erspindungen mit krizen. deutlich geschriebenen Beschreibungen beliebe man zu addresstren an Munn & Co.
37 Kart Kow, New-York.

Auf ber Office wird beutich geiprochen.

