Scientific American.

TO CORRESPONDENTS.

J. H., of Me .- You will not invalidate your claims to a patent by introducing your invention now. We have enrolled your name upon our subscription list H. M., of Ind.-Such engravings of your invention

as will answer our purpose to publish in the Scientific American, will cost you \$10 We can get upsuitable engravings for handbills, etc., for \$6.

A. W. F. F., of Va.-One pound of coke will eva porate 12 lbs. of water. but only 9 lbs. of water are evaporated in a locomotive boiler. It is surely possible to get a better per centage from the fuel.

H. G. B., of Ind.-Dalton has evaporated 10 lbs of waterby one of charcoal; 12 lbs, of water can be evaporated by one of coke ; he tested the quality of different kinds of fuel.

J. F. H., of E. G.-Your shoulder brace is very good; the yellow coloring property of the Barbary bark has been long known. Be careful in your ex periments with potassium and sodium; amorphous phosphorus is the best thing yet discovered for ma king the matches.

E. W. S. of Pa.-Your plan for increasing th draught of steamboats will answer very well, it is the same as that used for locomotives, except yours has an adjustable mouth, which so far as we know is patentable as you apply it.

R. M., of D. C .- Yours will receive attention next week.

A F. W., of Pa-We cannot refer you to any work for working drawings of paper machinery as used at present in the manufacture. The Cornish double beat is excellent.

B. F. R., of Pa.-You will not get half the power of your water from a Barker's mill; get a re-action wheel. The Barker mill, however, may do all your work, and you perhaps can build it yourself; if you knew the quantity of water discharged we could tell the power, not otherwise.

M. K., of N. Y -Prof. Page's engine has been patented in Europe, but not here; a battery has but one negative and one positive pole, your idea about three we cannot understand. The bar can certainly be divided into three separate parts; but you cannot get them to work as you propose ; they will all move together in one direction.

C.S., of Mass.-There is always danger of life from lightning passing into telegraph offices, if the conductors are not sufficient to carry off the discharge to the ground. We have not received minute information about the telegraph office at Buffalo Some telegraph instruments have been destroyed. It is possible for operators to be vigilantat all times Your suggested improvement can be easily tried, and you should do so.

S. D., of Ct.-No patent could be secured for a clothes pin made as represented in your sketch.

A. C. C., of Ky .- Your letter, containing \$3 for expense on model, is received.

J.W. M., of N. H.-We have carefully examined the sketch of your alleged improvement in ship's rudders; it contains nothing new or patentable. G. L. J., of Ohio-It is impossible for us to form

an opinion respecting the novelty of your invention without a sketch and proper description of it. You could easily construct and send us a model which we advise you to do.

M. & C., of Cincinnati-We shall examine your communication of the 18th, and will write you soon. W. W., of Pa.-We certainly think there is no doubt about your getting a patent, but what could you do with it. It has reference to no interest in

this country, therefore a patent would be value

Money received on account of Patent Office business for the week ending Saturday, May 31 :--

ness for the week ending Saturday, May 31:-B. & W., of Ct., \$30; F. G. W., of N. Y., \$300; S. & McK., of N. Y., \$55; J. C., of N. Y., \$27; W. G. M., of N. Y., \$15; A. D. G., of N. Y., \$30; J. McM., of -, \$10; C. B., of Mass., \$30; I. Z. A. W., of Pa., \$100; T. R., of N. Y., \$40; H. O., of N. Y., \$30; W. S., of N. Y., \$45; S. & K., of N. Y., \$67; J. G., Jr., of N. Y., \$45; W. C., of Ga, \$21.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday May 21 :--

M. B. F., of N. Y.; M. & S., of N. Y.; 1. C., of N. Y.; J. R., of Mich.; M. & T., of N. H.; A. C. K., of N. Y. (2 cases.)

A Chapter of Suggestions, dec.

PATENTEES-Remember we are always willing to execute and publish engravings of your inventions, provided they are on interesting subjects, and have never appeared in any other publication. No engravings are inserted in our columns that have appeared in any other journal in this country, and we must be permitted to have the engraving executed to suit our own columns in size and style. Barely the expense of the engraving is charged by us, and the wood-cuts may be claimed by the inventor, and subsequently used to advantage in other journals.

IVE INTELLIGIBLE DIRECTIONS—We often receive letters 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 ter street, (corner of Pine), N. Y. 31 6eow* GIVE INTELLIGIBLE DIRECTIONS-We often receive letters with money enclosed, requesting the paper office also omitted. Persons should be careful to

PATENT CLAIMS-Persons desiring the claims of

ADVERTISEMENTS.

American and Foreign Patent Agency

IMPORTANT TO INVENTORS.---The under-signed having for several years been extensively engaged in procuring Letters Patent for new mecha-nical and chemical inventions, offer their services to inventors upon the most reasonable terms. All business entrusted to their charge is strictly confi-dential. Private consultations are held with inven-tors at their office from 9 A. M., until 4 P. M. In-ventors, however, need not incur the expense of at-tending in person. as the preliminaries can all be arventors, however, need not incur the expense of at-tending in person, as the preliminaries can all be ar-ranged by letter. Models can be sent with safety by express or any other convenient medium. They should not be over 1 foot square in size, if possible. Having Agents located in the chief cities of Eu-rope, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the especial attention of one of the members of the firm, who is prepared to advise with inventors and manu-facturers at all times, relating to Foreign Patents. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

GARDINER'S PATENT MAGNETIC GOLD GARDINER'S PATENT MAGNETIC GOLD G Washer, Amalgamator and Separator.—This is the most perfect machine for Gold Mining that has been invented; it performs the operation of wash-ing the earth or pulverized quartz rock, amalgama-ting and magnetic separation of black sand or oxyde of iron, all at one movement, saving every particle of gold dust, however minute. With this machine two men can perform as much work per day as ten by any other process, and save all the gold A full explanation of its operation will be given by the manufacturer. The public are invited to examine. Price \$250. Iron Retorts at wholesale and retail. NORTON & GARDINER, 37tf 47 Dey street, N. Y.

To PATENTEES AND OTHERS-A man of energy, indefatagable perseverance and good ad-dress, is open to devote his whole time upon commission to anything likely to be very remunerative. Address "Industry," at W. H. McDonald's Adverti-sing House, 102 Nassau street, N. Y. 1*

WANTED-A man as manager or chief superin-tendent in an iron manufacturing establish-ment in this State. Address "Iron," box 80 New York Post Office. 1*

TO SHIP CARPENTERS, HOUSE CARPEN-ters, and Machinists—A respectable young man, if years of age, wishes to apprentice himself to eith-er of the above trades; he can be highly recommened, and give the most respectable city reference. Address JAMES LONERGAN, 34 Henry st. Willing to go to the country. 1*

SAND PAPER, GLUE-"Excelsior" Sand and Emery Papers, "Abbott's" Manilla Sand, and Match Papers, Emery Cloth, Emery, Emery Grit, Pumice Stone ground and in lump, of very superior quality; also Giue of Upton's, Cooper's, and all other brands, in quantities to suit purchasers, at the manufacturers' lowest prices, for sale by WIL-LIAM B. PARSONS, 290 Pearl st. (corner Beekman) N. Y. 87 3*

PATENT HYDRANTS AND COCKS—Bartho-lomew's Patent Self-acting Double and Single Hydrants and Cocks are in extensive use and much approved of, are strong, durable, not likely to get out of order, always shut when not in use, not like ly to freeze, avoid waste of water, do not burst pipe. The hydrants are cheaply repaired without digging up; double hydrants supply two lots and sixty te-nants. The cocks are adapted for water closets, re-quire no care in using; always shut, being self-stop-ping, give a good supply; the double valve cock avoids the expense and space of cistern, and gives a uniform supply each time used. One service pipe uniform supply each time used. One service pipe will supply twenty, do not freeze nor overflow, and make the cheapest and best job. Plumbers only sup-plied at the factory, 84 Marion st, N. Y. City. All work warranted. 35 4*

SPOKE MACHINES, SPOKE MACHINES_ NORE MACHINES, SPOKE MACHINES— The best and most perfect machine now in use, designed expressly for turning spokes of all sizes, is the one invented by Jenkins & Knight, and patented in January last. The Machine is sapable of turn-ing 200 spokes in an hour, and finishes the spoke in-cluding the shoulder. The subscribers, who are now the sole owners of the patent, are prepared to receive applications for machines or territerial rights. M. SCHOMMAKER & J. M. COOPEP M. SCHOMMAKER & J. M. COOPER, 35 5* Kingston, N. Y.

NEW WORKS ON CIVIL ENGINEERING-The Field Practice of Laving out Circular Curve

NEW WORKS ON CIVIL ENGINEERLING-The Field Practice of Laying out Circular Curves for Railroads : by John C. Trautwine, C. E.; second edition, in pocket-book form. A New and Rapid Me-thod of Calculating the Cubic Contents of Excava-tions and embankments, by the aid of Diagrams : by John C. Trautwine, C. E., with 10 copper-plates. Price \$1 each ; postage on the Curves, 5 cents, and on the Excavations and Embankments, 8 cents. The postage may be remitted or not, as the Post Of-fice does not require pre-payment. For sale by Wm. HAMILTON, Hall of the Franklin Institute, Phila. 35 am 35 3m

CLOCKS FOR CHURCHES, COURT HOUSES AND OTHER PUBLIC BUILDINGS. Time-Pieces for Session and Vestry Rooms Hotels, Rail-Joads etc.; Regulators for astronomical purposes, zewellers, and others, when the most perfect time is desired. The improvements introduced by the subscribers, enable them to warrantan accuracy of time-keeping, unequalled (so far as they can learn) in Eurone or America. Glass dials for illuminating in Europe or America. Glass dials, for illuminating and other kinds, furnished. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, Long Island. "At the Oakland Works of Sherry'& Byram there remade some of the finest clocks in the world." are made some of the finest clocks in the -[Scientific American. 19 13eov

once also omitted. Persons should be careful to write their names plainly when they address pub-lishers, and to mame the post office at which they wish to receive their paper, and the State in which the post office is located. PATENT CLAIMS—Persons desiring the claims of any invention which has been patented within fourteen years, can obtain a copy by addressing a letter to this office—stating the name of the pa-tentee, and enclosing one dollar as fee for copying

BEARDELEE'S PATENT PLANING Tongue ing and Grooving Machines—These celebrated machines have now been generally introduced in various portions of the United States. More than thirty are now in successful practical operation in the State of New York alone. As an illustration of the extent of work which they are capable of per-forming, with unrivalled perfection, it is sufficient to state that, within the last six months and a half, over five millions of feet of spruce flooring have been planed, tongued and grooved by one of these machines at Plattsburgh, N. Y., never running to exceed ten hours ad ay. The claim that the Beards-lee machine was an infringement upon the Wood-worth patent, has been finally abandoned; and after the proofs had been taken, the suit instituted by the owners of that patent was discontinued, and the whole controversy terminated on the first of Novem ber last. Applications for machines or rights may be made to the subscriber, GEO W. BEARDSLEE, 57 State street, or No. 764 Broadway, Albany. <u>15tf</u>

BARLOW'S UNSURPASSED Planing Tongue-ing and Grooving Machines. Testimonials of the highest character can be given of their superio-rity over all others in use. For rights or other in formation. Apply to A. K. Wellington, 184 Twelfth street, New York City. 32tf

WOODBURY'S PATENT PLANING Machines WOODBURY'S PATENT PLANING Machines W-I have recently improved the manufacture of my Patent Planing Machines, making them strong and easy to operate, and am now ready to sell my 24 inch Surfacing Machines for \$700, and 14 inch Sur-facing Machines for \$650 each. I will warrant, by a special contract, that ONE of my aforesaid machines will planeas many boards or plank as two of the Woodworth machines in the same time, and do it better and with less power. I also manufacture a superior Tonguing and Grooving Machine for \$350, which can be either attached to the Planing Ma-chine, or worked separately. JOSEPH P. WOOD-BURY, Patentee, Border st, East Boston, Mass. 2017

THE NEW HAVEN MANUFACTURING THE NEW HAVEN MANUFACTURING Company, New Haven, Conn., having purchased the entire right of E. Harrison's Flour and Grain Mill, for the United States and Territories, for the term of five years, are now prepared to furnish said mills at short notice. These mills are unequalled by any other mill in use, and will grind from 20 to 30 bushels per hour of fine meal, and will run 24 hours per day, without heating, as the mills are self-cool-ing. They weigh from 1400 to 1500 lbs, of the best French burr stone, 30 inches in diameter : snugiy packed in a cast-ironframe, price of mill \$200, pack-ing \$5. Terms cash. Further particulars can be had by addressing as above, post-paid, or to S. C. Hills by addressing as above, post-paid, or to S. C. Hills agent N. H. M. Co., 12 Platt st, N. Y. 28tf

ENGINEERING—The undersigned is prepared to furnish specifications, estimates, plans in gene-ral or detail of steamships, steamboats, propellers, high and low pressure engines, boilers, and machi-nery of every description. Broker in steam vessels, machinery, boilers, &c. General Agent for Ash-oroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic Self-adjusting Conical Packing, Faber's Water Gauge, Sewall's Salinometers, Dudgeon's Hy-draulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, etc. etc. CHARLES W. COPELAND,

29	18*	CHARLES W. COPELAND, Consulting Engineer, 64 Broadway.
		······································

WHEELER, WILSON, & Co.-Watertown, Ct., proprietors and manufacturers of Allen B. Wil-son's Patent Stitching Machine. Patented June 15, 1852, it can be seen at the Company's Office, 265 Broadway, New York. 30 20*

STAVE AND BARREL MACHINERY-We ma-Dufacture Stave and Barrel Machinery, for making everything in the cooper line, from the smallest white lead keg up to the largest cask in general use, all of which are warranted to hold the most subtile all of which are warranted to hold the most subtile liquids. Applicants can see the machinery in opera-tion (by calling on us at our shop in Elmira, five minutes' walk north of the New York and Erie Rail-road Depot, or by applying to us by mail can get all the requisite information respecting machinery and rights. Sample of the work can be seen by calling at the office of this paper. WM. TRAPP & CO., 24.4* rights. sample of this paper. WM. TRAPP & CO., at the office of this paper. WM. TRAPP & CO., 24 4* Patentees and Proprietors.

ATMOSPHERIC TELEGRAPH-The English
 A patent (just issued) is now offered for sale at the ompany's office, 24 Merchant's Exchange, Boston, ass.

 Ass.
 I. S. RICHARDSON, 25tf
Mass. 25tf

To STOVE MANUFACTURERS-The subscriber would call the attention To STOVE MANUFACTURERS—The subscri-ber would call the attention of stove manufac-turers to a new process of obtaining slot for covers for the reception of lifting handles, for which he has just obtained a patent ; some of the qualities for which he claims an advantage over the old process of chills, wires, &c., is the preventive of cracking, saving the expense of wire, and on moulding, giving a neater and prettier cover; it is now in use in Southern and New York State Furnaces, and gives universal satisfaction, furnace, county or State rights sold on reasonable terms. All letters ad-dressed to me at Albany, N. Y., will receive prompt attention. THADEUS A. SMITH. 844*

JAMES D. JOHNSON, Bridgeport, Ct., Proprie-tor of Wood's Patent Shingle Machine. Persons wishing to purchase rights or machines, can ad-dress as above. This is unquestionably the best machine in use for cutting shingles. 33tf

Woodworth's PLANING MACHINES ON Woodwordth's PLANING MACHINES ON quality at reduced prices, warranted perfect; also steam engines and other machinery. Also Rotary Stave Dressing Machines, capable of dressing staves with the natural growth of the timber, the only one ever invented capable of accomplishing that pur-pose. Rights for sale in various States. JOHN H. LESTER, 57 Pearl st, Brooklyn, L. I. 35 10*

MACHINE FOR MAKING RAILROAD Chairs M —Having built one of my patent machines for making Railroad Chairs, and operated it in presence of several scientific mechanics, who pronounce it the most perfect machine evermade for the purpose, I am anxious to sell rights upon reasonable terms; 4000 perfect chairs can be made jin one day, with only one-third the usual labor. ROBERT GRIF-FITHS, Newport, Ky., opposite Cincinnati. 35 3*

DERUVIAN GUANO-Just received, per ship Grecian, first quality of Peruvian Guano. No. 1 Super-phosphate of Lime constantly on hand; also Agricultural and Horticultural Implements and Field and Garden Seeds: the largest and most com-plete assortment to be found in the United States. B. L. ALLEN. R. L. ALLEN, 189 and 191 Water st, New York. 35 3*

NEW METHOD FOR MAKING WROUGHT-New METHOD FOR MAKING WROUGHT-Iron direct from the Ore—The proprietors of James Renton's Patent, who have purchased Alex. Dickerson's patent for the above purpose, are de-sirous of introducing the invention, into general use, and invite parties who may wish to negotiate for rights for States and counties, or for furnaces, to make immediate application, and to examine the furnace which is in successful operation at the Ame-rican Iron Company's Works, Newark, N. J. The invention is exciting considerable interest; gentle-men from all parts of the country, who are engaged in the manufacture of iron, have examined the fur-nace in its workings, and give it their decided com-mendation. A circular, giving more minute infor-mation, will be sent to those desiring it. The rights for several States and counties have already been disposed of. Applications for rights in the State of New Jersey may address the Hon. J.M. Quinby, Pre-sident of the American Iron Company. Inquiries or applications for other States may be made to A. H. BROWN, Newark, N. J. Office 107 Market st. 34tf

STAVE MACHINERY-We manufacture the im-proved Mowry Stave Machine for slack work, outting, dressing, and jointing, at one operation, without any handling of the stave until it is finish-ed, after you place the bolt of wood upon the feed-ing carriage. The machine feeds itself, cutting, dressing, and jointing in a finished and uniform manner 80 to 100 staves a minute. Any kind of timber fit fora stave may be used, even such as could not be rived, as elm, hickory, beach, &c. The cost ofrunning the machine need not exceed, if it equals, 50cts per M, for cutting, dressing, jointing, removing, and piling up, where a machine is kept statedily at work. For machinery and rights in the State of New York, apply to CHAS. MOWRY, Au-burn, N. Y.; for machinery and rights elsewhere, to the subscribers, GWYNNES & SHEFFIELD, Ur bana, Ohio. 30tf bana, Ohio.

T. J. SLOAN'S PATENT HYDROSTAT-For T. the Prevention of Steam Boiler Explosiens. The undersigned having made extensive arrange-ments for the manufacture of these machines, are now prepared to receive orders for the immediate application of the same to boilers of every descrip-tion. They have endeavored to place the instru-ment within the reach of all, by selling it at a very low price, the cost of one horse-power being only \$20, five horse-power, \$30, and so on, according to the capacity of the boiler. SLOAN & LEGGETT, Proprietors and Manufacturers, foot of East 25th st, New York. 30tf New York.

MACHINERY.-S. C. HILLS, No. 12 Platt-st. N. MACHINERY. -- S. C. HILLS, No. 12 Plattst. N. Y. dealer in Steam Engines, Boilers, Iron Pla-ners, Lathes, Universal Chucks, Drills; Kase's, Von Schmidt's and other Pumps; Johnson's Shingle Ma-chines; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Punches and Shears; Mor-ticing and Tennoning machines; Belting; machinery oil, Beal's patent Cob and Corn mills; Burrmill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 27tf

A. B. ELY, Counsellor at Law, 52 Washington A. st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific Idtf

LEONARD'S MACHINERY DEPOT, 109 Depart-st. and 60 Reayer, N. Y.-Leather Banding Manufactory, N. Y.-Machinista's Tools, a large as-sortment from the "Lowell Machine Shop," and oth-er celebrated makers. Also a general supply of me-chanics' and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. 27tf P. A. LEONARD.

PAINTS, dc. dc.—American Atomic Drier Graining Colors, Anti-friction Paste, Gold Sise, Zine Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., 27tf Painters and Chemists.

COTTON MACHINERY-Of the most approved U plans, from the best shops in the country :-drawings, specifications, and general arrangements for the machinery, furnished at the lowest rates, by W. B. LEONARD, and E. W.SMITH, 75 Merchants' Exchange, New York. 23tf

THE TROY IRON BRIDGE CO. are prepared The IROY IROY BRIDGE CO. are prepared to erect Iron Bridges or Boofs, or any kind of bearing trusses, girders, or beams, to span one thou-sand feetor under, of any required strength, in any part of the country. Their bridges will be subject-ed to severe tests, and can be built for about the price of good wooden ones. Address BLANCHARD & FELLOWS Trov. N.Y. 30 10* & FELLOWS, Troy, N. Y.

FALES, RAILROAD CAR MANUFACTU-RERS-Grove Works, Hartford, Connecticut. Pas-senger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. Itf

C. B. HUTCHINSON'S PATENT STAVE Cut-ting Machines, the best in use, and applicable alike to thick or thin staves; also his Head Cutting and Turning, and Stave Jointing Machines. For machines or territorial rights, apply to C B. HUTCHINSON & CO., Syracuse, N. Y. 36tf

D. WHITE'S PATENT CAR AXLE LATHES J. D. WHITE'S PATENT CAR AXLE LATHES J.-also Patent Engine Screw Lathes, for boring and turning tapers, cutting screws, &c. We manufac-ture and keep constantly on hand the above lathes; also double slide Chuck and common Hand Lathes, Iron Planers, S. Ingersol's Patent Universal Ratchet Drill, &c. Weight of Axle Lathe, 5,500 lbs; price \$600; Engine Serew Lathe, 1400 to 7,000 lbs; price \$225 to \$675, BROWN & WHITE, 27tf Windsor Locks, Conn.

COCHRAN'S CRUSHING MACHINE-Can be seen in daily operation in Thirteenth street, be-tween 9th and 10th avenues. Parties in want of a machine for crushing and pulverizing quickly and cheaply Quartz Rock, Iron, Lead, Copper, and Silver Ores, and other mineral substances equally hard, are invited to witness the operation of these powerful and simple, but yet effective machines. For further particulars apply to E. & J. BUSSING & CO., No. 32 Cliff st., Y. N.

THE NEW HAVEN MANUFACTURING CO. No. 2 Howard st, New Haven, Ct., are now fin-ishing 6 large Lathes, for turning driving wheels, and all kinds of large work; these lathes weigh 9 tons, and swing 7 1-3 feet, shears about 16 feet long. Cuts and further particulars can be had by address-ing as above, post-paid. or to S. C. Hills, agent N.H. M. Oo., 12 Platt st, N. Y.

LEE & LEAVITT-Manufacturers of every de-scription of Cast Steel Saws, No. 53 Water street, between Walnut and Vine, Cincinnati, O. 27 6m*

295